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TECHNICAL REPORT I 76-20-FEL

PRODUCTION GUIDES FOR MEAT AND VEGETABLE ENTREES AND DESSERTS DEVELOPED FOR USE IN THE FROZEN FOIL PACK FEEDING SYSTEM F. E. WARREN AIR FORCE BASE

February 1976

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UNITED STATES ARMY
NATICK RESEARCH and DEVELOPMENT COMMAND
NATICK, MASSACHUSETTS 01760



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PRODUCTION GUIDES FOR MEAT AND VEGETABLE ENTREES AND DESSERTS DEVELOPED FOR USE IN THE FROZEN FOIL PACK FEEDING SYSTEM F.E. WARREN AIR FORCE BASE.

TECHNICAL REPORT

by

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ABSTRACT

Production guides are given for meat and vegetable entrees, as well as desserts. The guides are designed for use in the Frozen Foil Pack Meal Feeding System at F.E. Warren Air Force Base. Procedures are described for the preparation of 100 portions of each of the designated items. Changes in formulation and evaluation of finished products are the result of extensive work at NRDC. The objective was to make it possible to use institutional type facilities. It is recommended that production procedures, especially critical control points as well as procedures, be followed closely in order to obtain a safe and high quality product.

FOREWORD

This project was initiated at the US Army Natick Development Center in 1970 to evaluate the existing procedures followed in the preparation of frozen foil-pack meals at F.E. Warren Air Force Base, Cheyenne, Wyoming and to make recommendations for modifications, substitutions, or overall improvements. The decision was made to develop production guides suitable for foil-pack operations instead of the existing recipe cards intended for Dining Hall Kitchen operations.

This report contains production guides for meat and vegetable entrees, as well as desserts. The procedures were developed based on using a frozen system for distribution of prepared foods to missile sites.

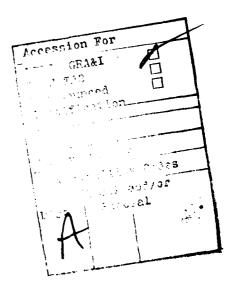


TABLE OF CONTENTS

	Page
Foreword	ı
Introduction	3
Production Guides	4-93
Meat Entrees	4
Vegetable Entrees	60
Desserts	78
Raw Material Specification Listing	94-99
Meat	94
Dairy, Egg, Condiment	96
Vegetables	98
Production Guide Index	100-103
Meat Entree	100
Vegetable Entree	102
Pegeograf a	103

INTRODUCTION

The purpose of this report is to provide documents for food preparation procedures for planned Central Food Preparation Facilities. The basic information was taken from the Armed Forces Recipe Service. However, significant changes were made in each item to enable it to withstand freezing without adverse effect on its texture. Problems relative to freeze—thaw stability and overall quality were encountered. Each frozen item was evaluated by technical panels to attain a high quality product.

The production guides are based upon a batch size of 100 portions so that they can be scaled up to the required batch sizes with ease. Critical control points during processing were reported as applicable. In addition, reconstitution procedures of the frozen meals on site were indicated.

References were made to Military as well as Federal specifications for the applicable products. This will help in the assurance of obtaining high raw materials for use in the production of the finished products.

The production guides given herein can be used in any cook-freeze system. However, it should be recognized that conditions and equipment at a given installation may necessitate minor changes.

Yield: 100 Portions

Each Portion: 8 ounces

Ingredients	Pounds	Grams	Procedure
Beef, boneless, diced	30.00	13,620	1. Brown beef in steam
			kettle, mixing slowly to
			brown all sides of dices.
			Drain liquid and discard.
			Add $1/2$ the required water;
			cover; simmer for approxi-
			mately 1 hour.
Noodles, dry	4.00	1,816	2. Approximately 2 hour
			prior to completion of
			beef cook, start cooking
			noodles in a separate
			steam kettle. Use 100
			grams salt per 6 gallons
			water and cook until
			slightly undercooked.*1
			After cooking, rinse well.
			Set aside for step 4.
Flour, rice	1.25	568	3. Mix starch and flour
Starch, Col-Flo 67	1.25	568	with the remaining water
Soup and gravy base, beef	0.88	400	to make a slurry and add
Salt, table	0.25	114	to steam kettle. Combine
Pepper, black	0.02	9	remaining seasonings, mix
Catsup, tomato	1.00	454	well and heat until mix-
Water, tap	27.00	12,260	ture thickens (cook 15 minutes).
			4. Add noodles from step 2;
			mix well and adjust volume
			to 7.8 gallons. Heat to 180°F.*2
			5. Weigh 8 ounces of product
			into each foil container.*3
			6. Cover, mark, and freeze.
Totals	65.65	28,174	

- 1. Reconstitute covered in 325°F oven to an internal temperature of ... 160°F (35-40 minutes).
- 2. Freeze-thaw stable starch may be used in lieu of Rice flour.

 - *Critical Check Points: 1. Preparation methods
 - 2. Product temperature and volume
 - 3. Correct fill

BARBECUED BEEF CUBES

L-18

Yield: 100 Portions

Each Portion: 6 ounces

Ingredients	Pounds	Grams	Procedure
Beef, boneless, diced,	30.00	13,620	1. Dredge beef in seasoned
1 inch by 1½ inch pieces			flour; shake off excess.
Flour, rice	1.00	454	2. Brown beef cubes in hot
Pepper, black	0.01	5	shortening in steam kettle.
Salt, table	0.13	59	3. After browning, drain
Shortening, melted	2.00	908	liquid and discard.
Water, tap	15.00	6,810	4. Add one half of water to
		•	beef, cover and simmer for
			55 minutes.*1
Onions, dehydrated, slices	0.50	227	5. Combine all dry seasoning,
Chili powder	0.14	64	starch, tomato paste
Mustard, ground, dry	0.08	36	Worcestershire sauce, hot
Sugar, light brown	0.26	118	sauce, and remaining water.
Salt, table	0.13	59	Mix well and simmer 25
Flour, rice	0.60	272	minutes or until meat is
Tomato paste (26% solids)	3.80	1,725	tender.
Worcestershire sauce	0.26	118	
Hot sauce, Tabasco	0.06	28	
Vinegar, cider (4%)	0.76	345	6. Add vinegar, mix well,
	•	- 1.	bring volume back to 5.25
			gallons with hot water.
			Heat to 180°F.*2
			7. Weigh 6 ounces to each
			foil container.*3
			8. Cover, mark, and freeze.
Total	54.73	24,848	

- 1. Reconstitute in 325°F oven to an internal temperature of 160°F (35-40 minutes).
- 2. Four pounds of fresh onions may be substituted for dehydrated onions in step 5.
- 3. One gallon weighs 8 pounds; each cup weighs 8 ounces.
 4. Freeze-thaw stable starch may be used in lieu of Rice flour.
 - *Critical Check Points: 1. Tenderness of meat
 - 2. Product temperature and volume
 - 3. Correct fill

BEEF POT PIE

Yield: 100 Portions

Each Portion: 8 ounces

Ingredients	Pounds	Grams	Procedure
Beef, boneless, diced	30,00	13,620	1. Brown beef in steam kettle in its own fat, (stirring slowly). Drain and discard fat. 2. Add 1/2 the required water to the browned beef. Cover. Simmer for approxi-
			mately 1 hour.*1
Flour, rice	1.10	499	3. Combine remaining water with starch and flour to make a slurry.
Pepper, black	0.03	14	4. Add slurry, salt, sugar,
Sugar, white granulated	0.20	91	pepper, and onions to steam
Salt, table	0.66	300	kettle. (Mixer on slow speed).
Onions, dehydrated, choppe	d 0.38	173	5. Heat to thicken starch (cook for 5 min @ 200 F).
Juice, tomato, canned	12.26	5,566	6. Add carrots and tomato
Carrots, fresh, sliced ½"	8.00	3,632	juice. Cook carrots for about 10 minutes then add
Potatoes, $1\frac{1}{2}$ in pieces	12.00	5,448	potatoes.*1
Water, tap	22.00	9,990	7. Cook potatoes until slightly undercooked.*1 8. Adjust volume to 7.5 gallons. Heat to 180°F.*2 9. Weigh 8 oz per foil container.*3 10. Cover with cooked dough strip. 11. Cover, label, and freeze.
Total	86.63	39,333	

- 1. Reheat covered in oven at 350°F until internal temperature reaches 160°F. Remove cover for 10 minutes or until topping is browned.
- 2. Freeze-thaw stable starch may be used in lieu of Rice Flour. *Critical Control Points: 1. Preparation methods
 2. Product temperature and volume
 - - 3. Correct fill

BEEF POT PIE TOPPING

Ingredients	Pounds	Grams	Procedure
Flour, wheat, pastry	2.33	1,058	1. Mix dry ingredients
sifted			together.
Shortening	0.78	354	2. Blend shortening into
Water, cold	1.55	704	dry ingredients until
Milk, non-fat, dry	•15	68	mixture resembles coarse
Baking Powder	•10	45	crumbs. Do not over mix.
Salt	•05	23	3. Gradually add cold
Sugar	•05	23	water and mix only enough
•	-	_	to form a soft dough.
			4. Place dough on a lightly
			floured board, kneeding
			lightly about 1 minute or
			until dough is smooth.
			5. Roll out to a uniform
			thickness of 1/4 inch.*1
			6. Cut in 1 inch strips
			6 inches long.*1
			7. Bake for 15 minutes in
			a preheated 425°F oven.*1
			8. When baked, place one
			strip over prepared pot
			pie.
Total	5.01	2,275	

BEEF STEW

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L-22

Yield: 100 Portions

Each Portion: 10 ounces

Ingredients	Pounds	Grams	Procedure
Beef, boneless, diced 1 in	nch		
by l½ inch pieces	30.00	13,620	1. Dredge diced beef in
Flour, rice	0.50	227	seasoned flour, shake off
Salt, table	0.35	159	excess. Add to steam
Pepper, black	0.02	10	kettle.
Sugar, white, granulated	0.20	90	
Water, tap	25.00	11,350	2. Add half of water to
			beef and simmer for 55
			minutes, covered.*1
Salt, table	0.35	159	3. Combine remaining water
Thyme, ground	0.01	5	with salt, thyme, bay leaves
Bayleaves, ground, fine	0.01	5	and starch. Mix well and
Flour, rice	0.44	200	add to simmered beef.
Carrots, fresh, ½ inch	8.00	3,632	4. Add all vegetables to
rings			beef and seasonings, mix
Celery, fresh, 1 in. piece	es 4.00	1,816	well and simmer until
Onions, dehydrated, slice	1 0.40	182	vegetables are slightly
Potatoes, fresh, white,	8.00	3 , 632	undercooked (15 mins.)
l to l½ inch pieces			5. Adjust volume to 8
Tomatoes, whole, canned	7.00	3,178	gallons with hot water.
			Heat to 180°F.*2
			6. Weigh 10 ounces per
			foil container.*3
			7. Cover, mark, and freeze.
Total	84.28	38,265	

- 1. Reconstitute in a 325°F oven to an internal temperature of 160°F (35-40 minutes).
- 2. Three pounds of fresh onions may be substituted in step 4 for dehydrated onions.
- Product weight 7.5 pounds per gallon or 7.5 ounces per cup.
 Freeze-thaw stable starch may be used in lieu of Rice Flour.
 - *Critical Control Points: 1. Tenderness of meat.
 2. Temperature of product and volume.

 - 3. Correct weights.

BAKED LASAGNA

<u>L-25</u>

Yield: 100 Portions

Each Portion: 11.00 ounces

Temperature: 325°F Oven

Ingredients	Pounds	Grams	Procedure
Sauce			
Beef, boneless, ground Oil or Shortening	10.00	4 ,5 40 91	 Add oil to steam kettle, spread evenly on inside to prevent meat sticking. Add ground beef and heat until meat loses red color. Drain excess fat and discard. Hold for Step 3.
Tomato paste, canned	9.00	4,086	3. Combine all seasoning
Tomatoes, canned, crushed	12.00	5,448	ingredients together in
Water, tap	10.00	4,540	steam kettle containing
Bay leaves, ground fine	0.01	5	ground beef, mix thoroughly.
Oregano, ground	0.04	18	4. Heat to a boil and
Pepper, cayenne	0.01	5	simmer 30 minutes with
Salt, table	0.25	114	occasional stirring.
Sugar, white	0.25	114	5. Bring volume back to
Pepper, black	0.01	5	4.75 gallons with hot
Flour, rice	0.25	114	water. Hold for panning
Onions, dehydrated, sliced	-	227	@ 180°F.*1
Garlic powder	0.01	5	
Thyme, ground	0.03	14	
Filling	2 75	7 210	6 Combine oll filling
Eggs, whole, beaten Cheese, cottage, drained	2.75 6.50	1,249 2,951	6. Combine all filling ingredients, mix thoroughly
Cheese, grated parmesan	0.75	2,951 341	and set aside for panning.
Parsley, dehydrated, flake		9	Hold under refrigeration
rarsiey, denyurated, make	8 0.02	9	if not panned within
			30 minutes.*2
Noodles			
Noodles, lasagna, whole	4.50	2,043	7. Add 10 gallons of water
Salt, table	0.31	141	to steam kettle, mix in
Oil, vegetable	0.25	114	salt, oil, and heat to a boil.

Ingredients	Pounds	Grams	Procedure
			8. Add noodles and cook with constant stirring until tender (18-20 minutes).*2 9. Rinse thoroughly with cold water, drain and set aside for panning.
Cheese, mozzarella, sliced	6.25	2,838	10. Set cheeses aside for panning.
Cheese, grated, parmesan	1.60	726	11. Pan according to instructions.*3 12. Heat foil containers of lasagna covered in a 325°F oven to an internal temperature of 160°F.*1 13. Mark and freeze.
Total	65.49	29,738	

*Critical Control Points:

- Temperature of product and volume.
 Preparation methods.
 Assembly instructions followed.

BAKED LASAGNA **L-25**

Panning Instructions

Layer 1 = Sauce, 2.00 ounces, spread evenly over bottom of foil pan.

Layer 2 - Noodles, 0.75 ounces, spread evenly over sauce.

Layer 3 = Filling, 0.75 ounces, spread evenly over noodles.

Layer 4 = Mozzarella cheese, 0.50 ounces, spread evenly over filling.

Layer 5 = Sauce, 2.00 ounces, spread evenly over cheese.

Layer 6 = Noodles, 0.75 ounces, spread evenly over sauce.

Layer 7 = Filling, 0.75 ounces, spread evenly over noodles.

Layer 8 = Mozzarella cheese, 0.50 ounces, spread evenly over filling.

Layer 9 = Noodles, 0.75 ounces, spread evenly over cheese. Layer 10 = Sauce, 2.00 ounces, spread evenly over noodles. Layer 11 = Parmesan cheese, 0.25 ounces, spread evenly over sauce.

- 1. Four and one quarter pounds of fresh onions may be used to replace dehydrated onions in Step 3.
- 2. One and one-half ounces of fresh parsely leaves may be used to replace dehydrated parsley in Step 6.
- 3. Reconstitute in 325°F oven to an internal temperature of 160°F (35-40 minutes).
- 4. Sauce weighs 9.4 pounds per gallon.
- Each pound of lasagna noodles cooks to 3.1 pounds.
- 6. Five 36 oz. cans of canned tomato juice concentrated may be substituted for tomato paste in Step 3.
- 7. Freeze-thaw stable starch may be used in lieu of rice flour.

BARBECUED BEEF PATTIES

<u>1-31</u>

Yield: 100 Portions

Each Portion: 2 patties, 4 oz sauce

Ingredients	Pounds	Grams	Procedure
Beef patties, frozen	45.00	20,430	1. Temper frozen patties to about 30°F before using. 2. Place patties on sheet pans 1 layer deep. Bake in 350°F oven until internal temperature reaches 160°F.*1 3. Place 2 patties per foil container.
Sauce			
Vinegar, cider	6.00	2,724	4. In a suitable size steam
Tomato paste	5•75	2,610	kettle, combine all
Water	11.00	4,994	ingredients. Bring to a
Sugar, granulated	4.00	1,816	boil then simmer until
Salt	0.62	281	sauce is well blended.
Mustard, prepared	1.75	794	5. Adjust volume to 3.25
Pepper, cayenne	0.02	9	gallons, blending well.
Onions, dehydrated, chopp	ed 0.20	91	Heat to 180°F.*2
Pepper, sweet, chopped	1.00	454	6. Place 4 oz sauce over
Celery, fresh, chopped	1.00	454	prepanned meat.*3
Cloves, ground	0.03	14	7. Cover, mark, and freeze.
Allspice, ground	0.03	14	•
Chili powder	0.20	91	
Total	76.60	34,776	

- 1. Reheat covered in oven at 325°F until product temperature reaches 160°F.
- *Critical Control Points: 1. Preparation methods.
 2. Product temperatures and volume.
 3. Proper filling weights.

CHILI CON CARNE WITH BEANS

Yield: 100 Portions

Each Portion: 9 ounces

Ingredients	Pounds	Grams	Procedure
Beef, boneless, ground	19.20	8,717	1. Brown beef in its own
peer, poneress, ground	17.20	0,111	fat in steam kettle, until
			it loses red color. Drain
			and skim off fat, discard.
Tomato paste, canned	1.60	726	2. Combine tomato products
Tomatoes, canned, crushed	5.20	2,361	and hold for Step 4.
Soup and gravy base,	0.60	272	3. Combine seasonings, water
beef flavored	2,00		and starch together with
Chili powder, ground, dark	0.52	236	cooked beef, mix thoroughly,
Salt, table	0.16	73	heat to 200°F and simmer
Garlic powder	0.01	5	for 10 minutes with constant
Pepper, cayenne	0.01	5 5	stirring (do not boil).
Paprika, ground	0.08	36	4. Add tomato products, mix
Onion powder	0.05	23	and heat to 180 F., simmer
Monosodium Glutamate	0.01	5	5 minutes.
Cumin, ground	0.01	5	•
Water, cold	19.50	8,853	
Flour, rice	0.20	91	
Beans, cooked, red kidney	20.00	9,080	5. Add beans, mix thoroughly.
canned, drained		•	6. Bring volume up to 6.75
			gallons with hot water.
			Heat to 180°F.*1
			7. Place 9 ounces of chili
			with beans in each foil
			container.*2
			8. Cover, mark, and freeze.
Total	67.15	30,488	

- 1. Reconstitute covered in 325°F oven to an internal temperature of 160°F (35-40 minutes).
- 2. Liquid from beans may be substituted for part of water in Step 3.
- 3. One gallon of chili con carne with beans weighs 9.2 pounds.
- 4. Average weight of drained liquid in Step 1 is 5.0 pounds.

 5. Freeze—thaw stable starch may be used in lieu of rice flour.

 *Critical Control Points: 1. Product temperature and volume.

 2. Proper fill.

CHILI CON CARNE WITHOUT BEANS

L-28

Yield: 100 Portions

Each Portion: 8 ounces

Ingredients	Pounds	Grams	Procedure
Beef, boneless, ground	29.50	13,393	1. Brown beef in its own
			fat in steam kettle, until
			it loses pink color. Drain
			or skim off excess fat and
			discard.
Tomato paste, canned	2.15	976	2. Combine tomato products
Tomatoes, canned, crushed	7.00	3,178	and hold for Step 4.
Soup and gravy base, beef	0.80	363	3. Combine all seasonings,
flavored			water, and starch with cooked
Chili powder, ground, dark	0.69	313	beef. Mix thoroughly, heat
Salt, table	0.20	91	to 200°F and simmer for
Garlic powder	0.01	5 5	10 minutes with constant
Pepper, red cayenne	0.01	5	stirring (do not boil).
Paprika, ground	0.14	64	4. Add tomato products, mix
Onion powder	0.08	36	and heat to 180°F. Simmer
Monosodium glutamate	0.01	5	5 minutes.
Cumin, ground	0.01	5	5. Bring volume up to 6.25
Flour, rice	0.26	118	gallons with hot water.*1
Water, cold, tap	21.00	9,534	6. Place 8 ounces of chili
			in each foil container.*2
			7. Cover, mark, and freeze.
Total	61.86	28,086	

- 1. Reconstitute covered in 325°F oven to an internal temperature of 160° F (35-40 minutes).
- 2. One gallon of chili weighs 8.75 pounds.
- 3. Average weight of drained liquid in Step 1 is 6 pounds.
 4. Freeze—thaw stable starch may be used in lieu of rice flour.
 *Critical Control Points: 1. Product temperature and volume.
 2. Proper fill.

CHILI MACARONI

Yield: 100 Portions

Each Portion: 11 cup

Ingredients	Pounds	Grams	Procedure
Macaroni, dry	6.00	2,724	1. Cook the macaroni in 6
Salt, table	0.20	91	gallons of boiling salted
			water for 10-15 minutes or
			until done.*1 Rinse with
			cold water and drain.
			Hold for Step 4.
Beef, boneless, ground	24.00	10,896	2. Brown beef in appropriate
			steam kettle. After browning,
			drain liquid and discard.
Garlic, powder	0.01	5	3. Add seasonings and tomatoes
Onions, dehydrated, chopp	ed 0.25	114	to meat. Stir and simmer
Monosodium glutamate	0.02	9	15-20 minutes.
Paprika	0.13	59	4. Add macaroni, adjust
Pepper, cayenne	•01	5	volume to 8 gallons. Blend
Salt, table	0.63	286	and heat to 180°F.*2
Chili powder	0.37	168	5. Place 10 oz product per
Bay leaves, ground fine	0.01	5	foil container.*3
Tomato paste	3.34	1,516	6. Cover, mark, and freeze.
Tomatoes, canned	12.21	5,543	•
Total	47.18	21,421	

- NOTES:

 1. Reconstitute in 325°F oven, covered to an internal temperature of 160°F (35-40 minutes).

 *Critical Control Points: 1. Preparation methods.
- 2. Product temperature and volume.
- 3. Proper filling weight.

EGG PLANT PARMESAN

Yield: 100 Portions

Each Portion: 12 ounces

Ingredients	Pounds	Grams	Procedure
Eggplant, fresh, whole	22.50	10,215	1. Peel eggplant and cut
		•	in ‡ inch slices (across
			grain). Hold for Step 3.
Milk, nonfat, dry	0.19	86	2. Reconstitute milk, add
Water, warm	1.88	854	eggs, mix thoroughly. Do
Eggs, fresh, whole, beaten	2.50	1,135	not hold unrefrigerated over
		•	30 minutes before using.*1
			3. Dip eggplant in milk
			and egg mixture, drain well
			and hold for Step 5.
Flour, wheat, general	2.50	1,135	4. Mix flour, salt, and
purpose	•	•	bread crumbs thoroughly.
Salt, table	0.63	286	5. Dredge eggplant in
Bread crumbs, dry	3.75	1,703	seasoned flour. Shake off
, ,		• • •	excess.
			6. Deep fat fry in 360°F oil
			until brown (1 minute). Set
			aside for panning.*2
Sauce			
Beef, boneless, ground	10.00	4,540	7. Add oil to steam kettle,
Oil or shortening	0.20	91	spread evenly on inside to
•			prevent meat from sticking.
			8. Add ground beef and heat
			until meat loses red color.
			Drain excess fat and discard.
			Hold for Step 9.
Tomato paste, canned	9.00	4,086	9. Combine all seasoning
Tomatoes, canned, crushed	12.00	5,448	ingredients together in steam
Water, tap	10.00	4,540	kettle containing ground beef
Bay leaves, ground fine	0.01	5	and mix thoroughly.
Oregano, ground	0.04	18	10. Heat to a boil and simmer
Pepper, cayenne	0.01	5	30 minutes with occasional
Salt, table	0.25	114	stirring.
Sugar, white granulated	0.25	114	11. Bring volume back to
Pepper, black	0.01	5	4.75 gallons with het water.
Flour, rice	0.25	114	Hold for panning.*3
Onions, dehydrated, sliced	0.50	227	
Garlic powder	0.01	5	
Thyme, ground	0103	14	

EGGPLANT PARMESAN

Ingredients	Pounds	Grams	Procedure
Cheese, mozzarella, sliced thin	12.50	5,675	12. Set cheese aside for panning.
Cheese, grated, Parmesan	6.25	2,838	13. Pan according to instructions.*4 14. Heat foil containers of eggplant covered in 325°F oven to an internal temperature of 160°F. 15. Mark and freeze.
Total	95.26	43,253	

PANNING INSTRUCTIONS

- Layer 1. Sauce 3.00 purces. Spread evenly over bottom of foil container.
- Layer 2. Eggplant 3.00 ounces. Place evenly on sauce.
- Layer 3. Parmers at Cheese 0.50 ounces. Spread evenly over eggplant.
- Layer 4. Dzzare la Cheese 1.00 ounce. Place evenly on cheese.
- Layer 5. Sauce 3.00 ounces. Spread evenly over cheese.

 Layer 6. Mozzarella Cheese 1.00 ounces. Place evenly on sauce.
- Layer 7. Parmesan Cheese 0.50 ounces. Sprinkle evenly over cheese.

- 1. Each foil pack weighs 12.00 ounces.
- 2. 4.25 pounds of fresh onions may be substituted for dehydrated onions in Sept 9.
- 3. Reconstitute in 325°F oven to an internal temperature of 160°F (35-40 minutes).
- 4. Eggplant should stand at room temperature 10 minutes before depanning.
- 5. If sliced eggplant is not used immediately, soak in water to keep from browning.
- 6. Freeze-thaw stable starch may be used in lieu of rice flour.
 - *Critical Control Points: 1. Check milk and egg mixture for temperature.
 - 2. Check deep frying oil for temperature and stability.
 - 3. Sauce temperature and volume.
 - 4. Product filling requirements.

MEAT LOAF AND BROWN GRAVY

Yield: 100 Portions

Each Portion: 6 ounces meat, 4 ounces gravy

Temperature: 325°F oven

Ingredients	Pounds	Grams	Procedure
Onions, dehydrated	0.18	82	1. Rehydrate onions in excess
chopped			water 10 minutes, drain.
Peppers, sweet, fresh	0.50	227	2. Saute onions, peppers,
green, chopped, 1/8 in.			and celery in shortening
Celery, fresh, finely	1.00	454	until lightly browned.
chopped			Cool to 60°F and save for
Shortening	0.50	227	Step 3.
Beef, boneless, ground	30.00	13,620	3. Combine sauteed vegetables,
Eggs, whole, beaten	1.30	590	bread crumbs, beef, eggs,
Salt, table	0.40	182	seasonings and water in
Pepper, black	0.03	14	mechanical mixer and mix
Bread crumbs, dry	4.00	1,816	lightly (just enough to
Water, tap	6.00	2,724	complete mixing).
Shortening	0.50	227	4. Form into 2 pound 8 ounce
J			loaves in greased loaf pans
			$(8\frac{1}{2})$ inches by $4\frac{1}{2}$ inches
			by 2-3/4 inches). Do not
			allow uncooked mixture to
			remain at room temperature
			over 30 minutes.*1
			5. Heat uncovered in 325°F
			oven to an internal tempera-
			ture of 165°F. (1 hour 20
			minutes). Place loaves in
			freezer or refrigerator to
			bring temperature down to 60°F.
			6. Slice 9/16 inches thick
			(3 ounce slices). *2
			7. Place 2 slices in each foil
			container and hold for Step 10.
Gravy			compather and note for Step to:
Meat drippings and clear	1.50	681	8. Add fat to steam kettle,
fat or shortening			heat to melt and sprinkle
Flour, wheat, general	1.00	454	flour evenly over fat. Mix
1 00		707	thoroughly and cook 10 min.

MEAT LOAF AND BROWN GRAVY

Ingredients	Pounds	Grams	Procedure
Flour, rice	0.50	227	9. Combine starch, stock or
Stock or cold water	23.50	10,669	water and remaining ingredi-
Pepper, black	0.01	5	ents together, heat to 180°F
Caramel coloring liquid	0.01	5	and add slowly to fat-flour
Soup and gravy base, beef	0.40	182	mixture. Mix thoroughly and
flavor			cook for 20 min. Bring volume
			back to 3 gal. with hot water.*3
			10. Pour 4 ounces of gravy
			over meat in foil container.*4
			11. Cover, mark, and freeze.
Total	71.33	32,386	

- 1. 1.26 pounds of fresh onions may be used as a substitute in Step 1 for dehydrated onions.
- 2. 1.50 ounces of dehydrated green peppers may be used as a substitute in Step 2 for fresh peppers.
- 3. Reconstitute foil containers covered in 325°F oven to 160°F internal temperature (35-40 minutes).
- 4. Bread, dry, broken may be substituted for bread crumbs as follows: Place formula water from Step 3 in broken bread and whip until large pieces are unidentificable. Press out and discard excess water.
- 5. Vegetables in Step 1 and 2 may be ground (\frac{1}{4} inch plate) rather than chopped.
- 6. Freeze-thaw stable starch may be used in lieu of rice flour.
- 7. Canned celery may be substituted for fresh celery.
 - *Critical Control Points: 1. Check time and temperature of uncooked mixture.
 - Check weight and size of cooked meat loaf slices.
 - 3. Check temperature and volume of gravy.
 - 4. Check proper filling of components.

Yield: 100 Portions

Each Portion: 1 steak

Ingredients	Pounds	Grams	Procedure
Milk, nonfat dry	0.41	186	1. Reconstitute milk and
Water, warm	4.31	1,957	blend crumbs with milk.
Bread crumbs	1.44	654	
Beef, boneless, ground	30.00	13,620	2. Rehydrate onions in
Onions, dehydrated	0.37	1.68	excess water, drain.
Eggs, whole	1.00	454	3. Combine mixture with
Pepper, black	0.02	9	beef and remaining ingredients.
Salt, table	0.37	168	Mix on low speed lightly,
Worcestershire sauce	0.19	86	but theroughly.
			4. Shape into oval patties
			l" thick weighing 6 oz on
			patty making machine.*1
			5. Place patties on lightly
			greased pans or on parchment
			paper. Note: At no time shall
			the unccoked patty tempera-
			ture be over 50°F.*2 Bake
			1 hour at 325°F to at least
			165°F internal temperature.*3
Gravy			•
Flour, wheat, general	0.44	200	6. Mix all ingredients except
purpose			water together until blended.
Flour, rice	О•44	200	Place in steam kettle.
Water, tap	23.15	10,510	7. Add water slowly to the
Soup & gravy base, beef	0.94	427	ingredients while stirring
Garlic powder	0.01	5	vigorously.
Pepper, black	0.01	5	8. Turn on steam and heat for
			5 minutes @ 200°F. Adjust
			volume to 3.5 gallons; blend
			well.*4
			9. Place one steak and 4 oz
			gravy per foil container.*5
			10. Cover, mark, & freeze.
Total	63.10	28,649	

NOTES:

*Critical Control Points: 1. Check patty size.
2. Check uncocked patty temperature.

Check cocked patty temperature.
 Check gravy temperature and volume.

Check filling weights.

Reheat covered at 350°F in oven until product temperature reaches 160°F.
 Freeze—thaw stable starch may be used in lieu of rice flour.

SALISBURY STEAK WITH TOMATO SAUCE

Yield: 100 Portions

Each Portion: 1 steak, 4 oz gravy

Ingredients	Pounds	Grams	Procedure
Nonfat dry milk	0.41	184	1. Reconstitute milk with
Water, tap	3.75	1,703	water provided.
Bread crumbs	1.50	681	2. Add milk to bread crumbs,
Beef, boneless, ground 1/8 inch	30.00	13,620	let stand 5 minutes.
Onions, dehydrated, choppe	d 0.38	170	3. Combine bread mixture
Egg, whole, beaten	1.00	454	with beef and remaining
Pepper, black	0.02	9	ingredients; mix lightly but
Salt, table	0.38	170	thoroughly.
Worcestershire sauce	0.19	86	4. Shape into oval portions one inch thick weighing six ounces on patty forming machine.*1 Note: At no time shall the uncooked patty temperature be over 50°F.*2 5. Place on lightly greased pans. Bake 1 hour at 325°F to at least 165°F.*3
Gravy	0.10	21	
Onions, dehydrated	0.19	86	6. Combine ingredients to
Shortening	1.50	681	a slurry.
Flour, wheat, general	1.00	454	7. Add seasonings to slurry
purpose	0 50	200	and put in steam kettle.
Flour, rice	0.50	227	8. Heat for 5 minutes at 200°F.
Water, tap	21.35	9,693	9. Adjust volume to 3.5
Tomato paste	2.15	976	gallons.*4
Pepper, black	0.01	5	10. Place one steak per
Soup and gravy base, beef	0.50	227	foil container. Pour 4 oz
			gravy over prepared steak.*5
	71 60	00 107	11. Cover, mark, and freeze.
Total	64.83	29,426	

- 1. Reheat at 350°F in oven until product temperature reaches no less than 160°F internal.
- 2. Freeze-thaw stable starch may be used in lieu of rice flour. *Critical Control Points: 1. Check patty size.
 - 2. Check uncooked patty temperature.

 - 3. Check cooked patty temperature.
 4. Check gravy temperature and volume.
 5. Check filling weights.

SPACHETTI WITH MEAT BALLS

Yield: 100 Portions

Each Portion: 6 meatballs, 8 ounces sauce 8 ounces spaghetti

Ingredients	Pounds	Grams	Procedure
Garlic powder	0.01	5	1. Combine all ingredients
Onions, dehydrated, sliced		182	in steam kettle except tomato
Bay leaves, ground fine	0.01	5	paste. Heat to 180°F.,
Oregano, ground	0.04	18	stirring constantly.
Pepper, cayenne	0.01	5	2. Simmer for 30 minutes
Tomatoes, canned, crushed	20.00	9,080	with occasional stirring.
Tomato paste	7.22	3,278	Add tomato paste and mix
Salt, table	0.70	318	well.
Sugar, white, granulated	2.74	1,244	3. Bring volume to 5.5
Thyme, dehydrated	0.04	18	gallons with hot water.
Water, tap	19.00	8,626	Cover and hold for step 8.*1
Meatballs			
Onions, dehydrated, sliced	0.61	277	4. Mix ingredients for
Water, tap	2.26	1,026	meatballs in a mixer,
Beef, boneless, ground	29.97	13,606	thoroughly but lightly.
Bread crumbs, dry	2.32	1,053	Note: At no time shall
Nonfat dry milk	2.32	1,053	temperature of uncocked
Eggs, whole, beaten	1.31	595	meatballs be over 50°F.*2
Pepper, black	0.01	5	5. Form into 1 ounce meat-
Salt, table	0.52	236	balls.
			6. Bake in 325°F oven un-
			covered in sheet pans to
			165°F internal temperature
			(30 minutes).*3
			7. Place 6 meatballs in each
			foil container.*4
			8. Pour 8 ounces sauce over
			panned meatballs.*4
			9. Cover, mark, and freeze.
Spaghetti, dry	12.93	5,870	10. Add salt to 6 gallons
Salt, table	0.31	141	water, heat to a boil.
Oil, vegetable	0.41	186	ll. Stir in spaghetti and
			oil. Reheat to boiling.
			Cook about 12 minutes or
			until slightly undercooked.*5
			12. Rinse spaghetti thoroughly
			with water to wash off
			excess starch.
			13. Weigh 8 ounces of spaghetti
			in each foil container.*4
			14. Cover, mark, and freeze.
Total	103.14	46,827	

SPAGHETTI WITH MEATBALLS

L-39

- 1. Reconstitute meatballs and sauce in 325°F oven to an internal temperature of 160°F (35-40 minutes).
- 2. Spaghetti: can be reconstituted in boiling water (1 min.).
- 3. Three pounds of fresh onions may be substituted for dehydrated onions in Step 1.

 - *Critical Control Points: 1. Check volume and temperature of sauce.
 - 2. Check temperature of uncooked meatballs.
 3. Check temperature of cooked meatballs.
 4. Check filling of components.
 5. Check doneness of spaghetti.

Yield: 100 Portions Each Portion: 1 cup spaghetti, 10 ozs. sauce

Ingredients	Pounds	Grams	Procedure
Spaghetti, dry	12.26	5,566	1. Add salt to 6 gallons
Salt, table	0.31	141	of water; heat to boiling.
Oil, vegetable	0.50	227	2. Stir in spaghetti and
	0.70		vegetable oil. Cook about
			15 minutes or until
			slightly undercooked.*1
			3. Rinse the spaghetti
			thoroughly with water to
			wash off excess starch.
			4. Weigh 8 oz. of cooked
			spaghetti in foil container.*2
			5. Cover, mark, and freeze.
Sauce			
Beef, boneless, ground	24.85	11,282	6. Place ground beef in
Tomato paste	11.50	5,221	steam kettle, cook until
Tomatoes, canned, crushed	25.50	11,577	redness disappears.
Garlic powder	0.01	5	7. Drain off excess liquid
Salt, table	0.46	209	from meat and discard.
Oregano, ground	0.01	5	8. Combine all ingredients
Pepper, cayenne	0.01	5 5 5	with water, mix thoroughly
Thyme, ground	0.01		and add to cooked beef.
Sugar, white, granulated	0.63	286	9. Heat to 180°F and
Bay leaves, ground fine	್ಲಿ01	.5	simmer covered for 30
Water, tap	16.00	7,264	minutes (mixer on low speed).
Flour, rice	0.19	86	10. Bring volume to 7.8
			gallons, mix thoroughly.*3
			11. Place 10 oz of sauce
			in foil container.*2
			12. Cover, mark, and freeze.
Total	92.25	41,884	

Yield for spaghetti approximately 3.5:1.
 Reheat sauce in oven at 350°F to an internal temperature of 160°F.
 Reheat spaghetti in boiling water (1 minute). Drain.
 Freeze—thaw stable starch may be used in lieu of rice flour.

*Critical Control Points: 1. Check doneness of spaghetti.

2. Check fill weight of components.

3. Check volume and temperature of sauce mixture.

SWEDISH MEATBALLS

1-41

Yield: 100 Portions

Each Portion: 3 Meatballs 1/3 cup gravy

Ingredients	Pounds	Grams	Procedure
Onions, dehydrated,	0.42	191	1. Add water to nonfat
chopped			dry milk and dehydrated
Milk, nonfat dry	0.32	145	onions. Mix thoroughly
Water, tap	6.45	2,928	and let stand no longer
Bread crumbs	2.88	1,308	than 30 minutes before use.*1
Eggs, whole beaten	1.00	454	2. Combine all ingredients
Pepper, black	0.01	5	with beef in mixer and mix
Salt, table	0.25	114	lightly but thoroughly.
Beef, boneless, ground	30.50	13,847	3. Form into 2 ounce meat-
			balls.*2
			4. Bake in oven at 350°F,
			to an internal temperature
			of 165° (35 minutes).*3
			5. Pan 3 meatballs per
			foil container.
Gravy			
Flour, wheat, general	0.76	345	6. Add 🕏 formula water to
purpose			steam kettle. Combine all
Water, tap	31.50	14,301	seasonings except flour
Flour, rice	0.76	345	and starch.
Soup & gravy base, beef	1.43	649	7. Blend thoroughly. Heat
Garlic powder	0.01	5	to 180°F and turn off steam.
Nutmeg, ground	0.01	5 5 5 5	8. Combine remaining water,
Oregano, ground	0.01	5	flour, and starch to make
Pepper, black	0.01	5	a slurry.
Paprika, ground	0.02	9	9. Add slurry slowly to
		·	steam kettle containing
			seasoning.
			10. Heat mixture at 200°F
			with constant stirring for
			5 minutes. Adjust volume
			to 4 gallons.*4
			11. Pour 5 oz. gravy over
			panned meatballs.*5
			12. Cover, mark, and freeze.
Total	76.34	34,661	

^{1.} Reheat covered in oven at 350°F until product internal temperature reaches 160°F.

^{2.} Freeze-thaw stable starch may be used in lieu of rice flour. *Critical Control Points: 1. Check milk & egg mixture for time requirement.

^{2.} Check weight of formed meatballs.

^{3.} Check temperature of cooked meatballs. 4. Check volume & temperature of gravy.

^{5.} Check filling requirements.

HOT ROAST BEEF WITH GRAVY

Yield: 100 Portions

Each Portion: 4 oz Beef 4 oz Gravy

Ingredients	Pounds	Grams	Procedure
Beef, boneless roast	40.00	18,160	1. Sprinkle salt and pepper
Salt, table	0.38	173	over roasts.
Pepper, black	•02	9	2. Bake in 325°F oven until
			internal temperature
			reaches 140-150°F.*1
			3. Place in cooler to chill
			meat for slicing (save
			drippings for use in gravy
			mfg.).
			4. When cool, slice meat
			in approximately 3/16"
			slices.
			Place 4 oz meat per
			foil container.*2
Gravy			
Meat drippings or	1.63	740	6. Heat drippings saved
shortening		_	from cooking of roasts.
Flour, wheat, general	0.93	422	7. Add flour to make a
purpose			smooth roux. Turn off
Flour, rice	0.62	281	steam after flour has
Water, tap	22.31	10,130	cooked.
Soup & Gravy base, beef	•50	227	8. Blend starch in with
Caramel coloring, powdered		['] 5	cold water; add remaining
Pepper, black	•02	9	seasonings. Pour into
			kettle. Blend thoroughly.
			9. Heat mixture to thicken
			starch and form a smooth
			gravy. Adjust volume to
			3.25 gallons, blending well.
			Maintain heat at 180°F.*3
			10. Pour 4 oz gravy over
			panned sliced beef.*4
			11. Cover, mark, and freeze.
Total	66.42	30,156	

^{1.} Reheat covered in oven at 350°F until product internal temperature is no less than 160°F.

^{2.} Freeze-thaw stable starch may be used in lieu of rice flour. *Critical Control Points: 1. Check internal temperature of roasts.

^{2.} Check weight of meat for fill.

^{3.} Check gravy volume and temperature.4. Check fill for gravy.

CHICKEN FRIED STEAKS

L-12

Yield: 100 Portions

Each Portion: 1 steak

Temperature: 350°F. Griddle; 350°F Oven

Ingredients	Pounds	Grams	Procedure
Beef, boneless, swiss	40.00	18,160	1. Dredge steaks in seasoned
steak			flour. Reserve excess flour
Flour, wheat, general	4.00	1,816	for use in Step 3.
purpose			
Salt, table	0.50	227	
Pepper, black	0.02	9	
Monosodium glutamate	0.01	5	
Milk, nonfat, dry	0.41	186	2. Reconstitute milk; add
Water, tap	3.75	1,703	eggs and blend thoroughly.
Eggs, whole, beaten	2.00	908	Dip steak in egg and milk
			mixture. Drain well.
			4. Dip in flour remaining
			from Step 1. Note: Do not
			allow unbrowned steaks to
			remain at room temperature
			more than 30 minutes.*1
Shortening, melted	2.00	908	5. Brown steaks evenly on
			both sides on well-greased
			griddle.
			6. Overlap steaks in
			lightly greased pans.
			Cover pans tightly.
			7. Bake steaks until internal
			temperature reaches 165°F
			(45-60 minutes).*2
			8. Place one steak in each
			foil container.
			9. Cover, mark, and freeze.
Total	52.69	23,922	

1. Reconstitute in 325°F to an internal temperature of 160°F (35-40 min.).

2. Use the count of 100 steaks not the exact pounds as listed in Step 1. 3. Other types of milk may be used in Step 2.

4. If steaks are not tenderized, they may be by running through tenderizing machine waffle. Score each steak with a knife or pound steak with a waffled mallet.

- *Critical Control Points: 1. Check milk and egg mixture for time requirement.
 - 2. Check internal temperature of cooked steaks.

CORNED BEEF HASH

L-42

Yield: 100 Portions

Each Portion: 10 ounces

Ingredients	Pounds	Grams	Procedure
Peppers, sweet, green fresh, chopped 1/8 inch	1.67	758	1. Rehydrate onions with excess tap water for 10
Onions, dehydrated, minced	0.83	377	minutes and then drain.
Shortening	1.11	504	2. Saute onions and chopped peppers in shortening.
Potatoes, diced 3/8 inch	24.00	10,896	3. Blanch potatoes in boiling water for 4 minutes. Rinse immediately with excess cold water to cool.
Corned beef, canned Pepper, black	24.00 0.03	10,896 14	4. Place all ingredients in mixing bowl and mix on low speed until thoroughly mixed (30 seconds).*1 5. Weigh 10 ounces per foil container.*2 6. Cover, mark, and freeze.
Total	51.64	23,445	

^{1.} Reconstitute in 325°F oven to an internal temperature of 160°F.

Leave cover on for first 25 minutes then remove for last 15 minutes.

^{*}Critical Control Points: 1. Check mixing of ingredients. 2. Check fill weight.

SWISS STEAK WITH BROWN GRAVY

Yield: 100 Portions

Each Portion: 1 steak, 3 ounces gravy

Temperature: 350°F Griddle; Oven 325°F.

Ingredients	Pounds	Grams	Procedure
Beef, boneless swiss steak	40.00	18,160	1. Dredge steaks in seasoned
(100 steaks)		•	flour. Shake off excess.
Flour, rice	2.20	999	
Pepper, black	0.02	9	
Salt, table	0.18	82	
Shortening, vegetable	2.00	908	 Brown floured steaks on well greased grill (both sides). Shingle 50 steaks in each pan and hold for Step 4.
Onions, dehydrated, choppe		195	4. Combine onions, garlic
Garlic powder	0.01	5	powder, pepper, salt, gravy
Pepper, black	0.01	5	base, Worcestershire sauce
Salt, table	0.30	136	and water. Mix thoroughly
Soup & gravy base, beef	0.22	100	and pour equally over pans
Water, hot, tap	15.00	6,810	of shingled beef steaks.
Worcestershire sauce	0.45	204	 5. Gover pans and heat in 325°F oven until meat is tender (2½ hours). 6. Drain and retain liquid stock for Step 8. 7. Place one steak in each foil container and hold for Step 10.
Water, cold, tap	1.64	745	8. Add beef stock to steam
Flour, rice	0.27	123	kettle. Make a paste of
Beef stock	21.00	9,534	starch and cold water. Add
			to stock. 9. Heat to a boil. Boil for 15 minutes. Bring volume up to 2.5 gallons with hot water.*1 10. Pour 3 cunces of gravy over each steak.*2 11. Cover, mark, and freeze.
Total	83.73	38,015	

SWISS STEAK WITH BROWN GRAVY

L-16-1

- 1. Formula makes servings for 100 foil pack containers.
- 2. 3 pounds of fresh onions may be substituted for dehydrated onions in Step 4.
- Foil pack pans are reconstituted in 325°F oven to an internal temperature of 160°F (35-40 minutes).
 Pounds in formula for steaks are only a guide, use count of
- steaks to assure 100 steaks.
- 5. Field pans used in cooking were length 20 inches, width 17 inches. depth 6.5 inches.
- 6. If steaks are not tenderized, they may need to be run through a cubing machine to allow flour to stick.
- 7. Freeze-thaw stable starch may be used in lieu of rice flour. *Critical Control Points: 1. Gravy volume.
 - 2. Check proper fill.

Yield: 100 Portions

Portion Size: 1 steak,
3 ounces sauce

Temperature: 350°F Griddle; 325°F Oven

Ingredients	Pounds	Grams	Procedure
Beef, boneless, swiss	40.00	18,160	1. Dredge steaks in seasoned
steak (100 steaks)			flour. Shake off excess.
Flour, rice	2.20	999	
Pepper, black	0.02	9	
Salt, table	0.18	82	
Shortening, vegetable	2.00	908	2. Brown floured steaks on well greased grill (both
			sides.). 3. Shingle 50 steaks in
			each pan and hold for
			Step 4.
Onions, dehydrated, chopp		195	4. Combine onions, peppers,
Pepper, sweet, fresh, gre	en 2.00	908	garlic powder, pepper, salt,
chopped, 1 inch			tomatoes, and Worcestershire
Water, hot, tap	10.00	4,540	sauce, mix thoroughly and
Garlic powder	0.01	5	pour equally over pans of
Pepper, black	0.01	5	shingled beef steaks.
Salt, table	0.30	136	5. Cover pans and heat in
Tomatoes, canned, crushed		6,016	325°F oven until meat is
Worcestershire sauce	0.45	204	tender (2½ hours).
			6. Drain and retain liquid
			stock for Step 8.
			7. Place one steak in each
			foil container and set
			aside for Step 10.
Water, cold, tap	1.64	745	8. Add beef stock liquid to
Flour, rice	0.29	132	steam kettle. Make a paste
Beef stock	21.00	9,534	of starch and cold water,
			add to stock.
			9. Heat to a boil. Boil for
			15 minutes. Bring volume
			up to 2.5 gallons with hot water.*1
			10. Pour 3 ounces of sauce
			over each steak. *2
			11. Cover, mark, and freeze.
Total	93.78	42,578	Jorday massay was 2200200

SWISS STEAK WITH TOMATO SAUCE

<u>L-16</u>

- 1. Formula makes servings for 100 foil pack containers.
- 2. 3 pounds of fresh onions may be substituted for dehydrated onions in Step 4.
- 3. 5-1/3 ounces of dehydrated green peppers may be substituted for fresh peppers in Step 4.
- 4. Pans are reconstituted at 325°F to an internal temperature of 160°F (35-40 minutes).
- 5. If steaks are not tenderized, they may need to be run through a cubing machine to allow flour to stick.
- 6. Pans used in cooking were field cooking square lugs (length 20 inches, width 17 inches, depth 6.5 inches).
- 7. Freeze-thaw stable starch may be used in lieu of rice flour. *Critical Control Points: 1. Gravy volume.
 - 2. Check proper fill.

<u>1--60</u>

BAKED FRANKFURTERS WITH SAUERKRAUT

Yield: 100 Portions

Each Portion: 2 franks 4 ounces kraut

Ingredients	Pounds	Grams	Procedure
Frankfurters, chilled Sauerkraut, drained	25,00 25,00	11,350 11,350	1. Place two frankfurters in each foil container. 2. Spread 4 ounces of sauerkraut over each container of frankfurters.*1 3. Cover, mark, and freeze.
Total	50.00	22,700	

^{1.} Reheat covered in oven at 350°F until internal temperature reaches 160°F.

^{*}Critical Control Points: 1. Check filling weights.

BARBECUED FRANKFURTERS

Yield: 100 Portions

Serving: 2 franks, 4 oz.

Ingredients	Pounds	Grams	Procedure
Frankfurters	25.30	11,486	1. Slit frankfurters length-
			wise; place 2 per foil
			container.
Shortening	1.26	572	2. Rehydrate onion in excess
Onions, dehydrated, chopy	ped 0.30	136	water, drain. Saute onions
Sugar, granulated	1.26	572	in shortening in a suitable
Pepper, black	0.07	32	size steam kettle.
Mustard, dry	0.24	109	Add remaining ingredients
Paprika	0.16	73	to kettle, simmer for 10
Worcestershire Sauce	0.68	309	minutes. Adjust volume to
Hot sauce	0.23	104	3.2 gallons with hot
Catsup	11.40	5,176	water.*1
Vinegar, white	5.06	2,297	4. Pour 4 oz sauce over
Water, tap	5.06	2,297	prepanned frankfurters.*2
· •			5. Cover, mark, and freeze.
Total	51.02	23,163	

NOTES:
1. Reheat covered in oven at 350°F until internal temperature of frankfurters reaches 160°F.

*Critical Control Points: 1. Check volume of sauce. 2. Check filling weight.

Yield: 100 Portions

Each Portion: One piece of fish, 6 ounces sauce

Temperature: 375° oven

Ingredients	Pounds	Grams	Procedure
Fish, fillet, cod or	50.00	22,700	1. Cut fish into 8 ounce
haddock			pieces and place on greased
Margarine, melted	2.00	908	pan (18 by 26 inches).
Lemon juice	0.85	38 6	2. Combine melted margarine
Paprika, ground	0.10	45	with lemon juice and pour
			evenly over fish.
			3. Sprinkle paprika over
			fish.
			4. Bake about 25 minutes or
			until brown in a 375°F oven.*1
			Drain liquid from cooked fish
			and save for Step 7.
			5. Place one piece of cooked
			fish in each foil container
			and set aside for Step 10.
			(Fish may be held in cooler
			until ready for panning).
Margarine	3.25	1,476	6. Heat margarine in steam
Flour, rice	1.95	885	kettle. Sprinkle with
			flour, mix thoroughly and
			cook 10 minutes. Hold for
			Step 7.
Starch, Col Flo 67	0.26	118	7. Combine starch, nonfat
Milk, nonfat, dry	2.75	1,248	dry milk, water or stock,
Water, tap or fish stock	26.00	11,804	and salt, mix thoroughly.
Salt, table	0.15	68	Heat to 180°F. Add to flour
			mixture with constant
			stirring.
Cheese, cheddar, shredded	4.50	2,043	8. Add cheese to mixture
or ground			resulting from Steps 6 & 7 and
			heat until cheese is completel
			melted.
			9. Adjust volume to 5 gallons
			with hot water.*2
			10. Pour 6 ounces of sauce
			over fish in each foil
			container.*3
			11. Cover, mark, and freeze.
	91.81		

BAKED FISH WITH CHEESE SAUCE

I-106

- 1. Reconstitute in 350° F oven to an internal temperature of 160° F (35-40 minutes).
 2. 10 lemors A.P. will yield .85 pounds of juice in Step 1.
- 3. Freeze-thaw stable starch may be used in lieu of rice flour. *Critical Control Points: 1. Check cooking time and temperature of fish.
 - Check volume of sauce.
 - 3. Check proper fill.

Yield: 100 Portions

Each Portion: 1 cup, 8.50 ounces

Temperature: 350°F Oven

Noodles, dry, medium Salt, table Salt, table O.11 50 2,270 2. Cook needles in salted water (3 gallons) until ten der (15-20 minutes). Rinse thoroughly and set aside for Step 7. Milk, nonfat, dry 2,50 1,135 3. Add milk and starch to water, warm 24.00 Starch, Col Flo 67 O.42 191 heat slowly to 180°F. Hol for Step 5. Flour, rice Salt, table O.16 73 heat butter or margarine in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constan stirring. 5. Add heated milk-starch m ture to the fat-flour mixtu	Ingredients	Pounds	Grams	Procedure
Noodles, dry, medium Salt, table 0.11 5.00 2,270 2. Cook ncodles in salted water (3 gallons) until ten der (15-20 minutes). Rinse thoroughly and set aside for Step 7. Milk, nonfat, dry 2.50 1,135 3. Add milk and starch to water, warm 24.00 10,896 Water, mix thoroughly, and heat slowly to 180 F. Hol for Step 5. Flour, rice 1.27 577 4. Melt butter or margarine Salt, table 0.16 73 in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constan stirring. 5. Add heated milk-starch m ture to the fat-flour mixtu	Tuna, canned, white	17.00	7,718	
Noodles, dry, medium Salt, table 0.11 5.00 2,270 2. Cook ncodles in salted water (3 gallons) until ten der (15-20 minutes). Rinse thoroughly and set aside for Step 7. Milk, nonfat, dry 2.50 1,135 3. Add milk and starch to water, warm 24.00 10,896 Water, mix thoroughly, and heat slowly to 180 F. Hol for Step 5. Flour, rice 1.27 577 4. Melt butter or margarine Salt, table 0.16 73 in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constan stirring. 5. Add heated milk-starch m ture to the fat-flour mixtu				aside for use in Step 7.
der (15-20 minutes). Rinse thoroughly and set aside for Step 7. Milk, nonfat, dry 2.50 1,135 3. Add milk and starch to water, warm 24.00 10,896 water, mix thoroughly, and Starch, Col Flo 67 0.42 191 heat slowly to 180 F. Hol for Step 5. Flour, rice 1.27 577 4. Melt butter or margarine salt, table 0.16 73 in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constant stirring. 5. Add heated milk-starch muture to the fat-flour mixture.			2,270	2. Cook needles in salted
thoroughly and set aside for Step 7. Milk, nonfat, dry Water, warm 24.00 Starch, Col Flo 67 Flour, rice Salt, table Butter or margarine 2.25 1.27 2.57 1.27 577 4. Melt butter or margarine in large steam kettle, Butter or margarine 2.25 1,022 Sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constant stirring. 5. Add heated milk-starch muture to the fat-flour mixture	Salt, table	0.11	50	water (3 gallons) until ten-
Milk, nonfat, dry Water, warm Starch, Col Flo 67 Flour, rice Salt, table Butter or margarine Mater or margarine Salt of margarine Salt of margarine Salt of margarine Milk, nonfat, dry 2.50 1,135 3. Add milk and starch to water, mix thoroughly, and heat slowly to 180 F. Hol for Step 5. 4. Melt butter or margarine in large steam kettle, sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constant stirring. 5. Add heated milk-starch m ture to the fat-flour mixture				der (15-20 minutes). Rinse
Milk, nonfat, dry Water, warm 24.00 10,896 Water, mix thoroughly, and Starch, Col Flo 67 0.42 191 heat slowly to 180 F. Hol for Step 5. Flour, rice Salt, table 0.16 73 in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constan stirring. 5. Add heated milk-starch m ture to the fat-flour mixtu				thoroughly and set aside
Water, warm Starch, Col Flo 67 O.42 191 heat slowly to 180 F. Hol for Step 5. Flour, rice Salt, table O.16 Butter or margarine 2.25 1,022 Sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constant stirring. 5. Add heated milk-starch muture to the fat-flour mixture.			_	for Step 7.
Starch, Col Flo 67 O.42 191 heat slowly to 180°F. Hol for Step 5. Flour, rice 1.27 577 4. Melt butter or margarine Salt, table O.16 73 in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constant stirring. 5. Add heated milk-starch muture to the fat-flour mixture	Milk, nonfat, dry	2.50	1,135	3. Add milk and starch to
Flour, rice 1.27 577 4. Melt butter or margarine Salt, table 0.16 73 in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constant stirring. 5. Add heated milk-starch muture to the fat-flour mixture.	Water, warm	24.00	10,896	
Flour, rice 1.27 577 4. Melt butter or margarine Salt, table 0.16 73 in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constant stirring. 5. Add heated milk-starch muture to the fat-flour mixture.	Starch, Col Flo 67	0.42	191	heat slowly to 180°F. Hold
Flour, rice 1.27 577 4. Melt butter or margarine salt, table 0.16 73 in large steam kettle, sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constant stirring. 5. Add heated milk-starch margarine ture to the fat-flour mixture.	•			for Step 5.
Salt, table 0.16 73 in large steam kettle, Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constan stirring. 5. Add heated milk-starch m ture to the fat-flour mixtu			577	4. Melt butter or margarine
Butter or margarine 2.25 1,022 sprinkle flour and salt in and mix thoroughly. Cook for 10 minutes with constan stirring. 5. Add heated milk-starch m ture to the fat-flour mixture.	Salt, table	0.16	73	
for 10 minutes with constan stirring. 5. Add heated milk-starch m ture to the fat-flour mixtu	Butter or margarine	2.25	1,022	sprinkle flour and salt in
stirring. 5. Add heated milk—starch m ture to the fat—flour mixtu				and mix thoroughly. Cook
5. Add heated milk-starch m ture to the fat-flour mixtu				for 10 minutes with constant
ture to the fat-flour mixtu				stirring.
ture to the fat-flour mixtu				5. Add heated milk-starch mix-
Cimmon for 10 minutes stimm				ture to the fat-flour mixture.
Dimier, for utilities softe.				Simmer for 10 minutes stirring
				constantly. Hold sauce for
Step 7.				
	Celery, fresh, chopped	4.00	1,816	6. Rehydrate onions in excess
1/8 inch pieces cold water for 10 minutes,	1/8 inch pieces			cold water for 10 minutes,
Onions, dehydrated, sliced 0.09 41 drain. Saute celery and	Onions, dehydrated, sliced		41	
Butter or margarine 0.42 191 onions in fat until tender.	Butter or margarine	0.42	191	onions in fat until tender.
Set aside for Step 7.				
Pimientos, canned, drained, 0.85 386 7. Combine tuna, noodles,	Pimientos, canned, drained,	0.85	386	7. Combine tuna, noodles,
chopped 1" sauteed vegetables, and	chopped ½"			sauteed vegetables, and
pimientos with sauce. Mix	•			pimientos with sauce. Mix
thoroughly, heat to 180°F,				thoroughly, heat to 180°F, and
				adjust volume to 6.5 gallons
with hot water.*1				with hot water.*1
8. Place 8.5 ounces in each				8. Place 8.5 ounces in each
foil container.*2				
Cheese, cheddar, natural, 1.50 681 9. Sprinkle cheese evenly		1.50	681	
shredded over top of tuna.	shredded			
Paprika, ground 0.06 27 10. Mix bread crumbs and				
Bread crumbs, dry 0.85 386 paprika together and spread	Bread crumbs, dry	0.85	386	paprika together and spread
evenly over cheese.				
11. Cover, mark, and freeze				11. Cover, mark, and freeze.
Total 60.48 27,460	Molt of	70 10	56 175	المراجع المراج

BAKED TUNA AND NOODLES

<u>L-124</u>

- 1. Reconstitute in 350°F oven to an internal temperature of 160°F (35-40 minutes).
- 2. 12 ounces of fresh onions may be used in Step 6.
- 3. 3½ gallons of other types of milk may be substituted for non-fat dry milk and water in Step 3.
- 4. Freeze-thaw stable starch may be used in lieu of rice flour.

 *Critical Control Points: 1. Check finished product temperature and volume.
 - 2. Check for proper fill weight.

SALMON CAKES

<u>L-114</u>

Yield: 100 Portions

Each Portion: 2 cakes-5 oz.

Ingredients	Pounds	Grams	Procedure
Salmon, canned	20.00	9,080	l. Drain salmon and reserve
Potatoes, white, instant	4.00	1,816	juice for Step 3; remove
Milk, nonfat, dry	0.21	95	skin and bones. Flake.
Salt, table	0.06	27	2. Combine instant potatoes,
			nonfat dry milk and salt.
			Set aside for use in step 5.
Water and salmon juice	10.50	4,767	3. Heat water and salmon
Butter or margarine	0.50	227	juice to boiling and pour
_			into mixer bowl.
			4. Add butter or margarine.
			5. Add potato mixture rapidly
			to hot water and juice, whip
			until smooth.
			6. Cool potatoes.
Eggs, whole, beaten	2.00	908	7. Combine salmon, cooked
Onions, dehydrated, choppe	ed 0.09	41	potatoes, eggs, onions, and
Pepper, black	0.03	14	pepper. Mix thoroughly.
Flour, wheat, general	1.00	454	Chill to at least 35°F.*1
purpose			8. Shape on Hollymatic
			weight of 2.5 oz. per patty.*2
			9. Roll each cake in flour.
			10. Deep fry at 360°F. for
			l minute or until golden
			brown. Drain.*3
			ll. Place two patties per
			foil container.*4
			12. Cover, mark, and freeze.
Total	38.39	17,429	

- 1. Reconstitute uncovered in 325°F oven to an internal temperature of 160°F.
- *Critical Control Points: 1. Check temperature of salmon, potato, egg mixture.
 - Check patty size and weight.
 Check deep frying procedure.

 - 4. Check proper filling procedure.

PORK CHOP SUEY

L-80(1)

Yield: 100 Portions

Each Portion: 8 oz.

Ingredients	Pounds	Grams	Procedure
Pork, boneless, diced	32.00	14,528	1. Brown diced pork in its
Salt, table	0.26	118	own fat sprinkled with salt
Pepper, black	0.03	14	and pepper in a steam kettle.
Water, tap	9.18	4,168	2. Cover pork with water provided; bring to a boil. Cover and simmer 1 hour.
Onions, dehydrated, sliced Celery, sliced, 3/16"	8.01	681 3,637	3. Rehydrate onions in excess water, drain, and add rehydrated onions and sliced celery to kettle approximately 20 minutes prior to 1 hour cook of pork.*1
Bean sprouts, canned, (drained)	12.01	5,453	4. Drain bean sprouts reserving liquid.
Flour, rice	1.25	568	5. Combine the liquid from
Ginger, ground	0.01	5	the beansprouts, flour,
Soy sauce	1.00	454	and ginger. Stir to make
Molasses	0.35	159	a smooth paste.
		_,,	6. Add slurry slowly to
			mixture stirring constantly. Cook 5 minutes or until thickened.
			7. Add bean sprouts, mix well.8. Stir in soy sauce and
			molasses. Blend well and adjust volume to 6.25 gallons.*2
			9. Place 8 oz product per
			foil container.*3
			10. Cover, mark, and freeze.
Total	65.59	29,785	To other marry with 1100206

- 1. Reheat in oven at 325°F until product internal temperature reaches 160°F. Do not loosen or remove cover.
- 2. Frozen sliced onions may be substituted for the dehydrated at the ratio of 8 parts to 1.

 *Critical Control Points: 1. Check for tenderness of meat and vegetables.

 2. Check sauce preparation and finished volume.

 3. Check for proper fill.

Yield: 100 Portions

Each Portion: 1 cup

Ingredients	Pounds	Grams	Procedure
Pork, diced, boneless	32.00	12,528	1. Combine eggs, soy sauce,
Egg, whole, beaten	0.96	436	flour, salt, and garlic powder.
Soy sauce	0.96	436	Stir until blended. Pour
Flour, rice	0.96	436	sauce over meat and mix to
Salt, table	0.24	109	coat pieces. Let stand for
Garlic powder	0.01	5	10 minutes.
			2. Cook pork dices in deep
			fat fryer set at 360°F for
			approximately 2 minutes or
			until meat is cooked to 160°F.*1
Bean sprouts, canned,	12.96	5,884	3. Drain bean sprouts and
d rai ned			pineapple, saving the liquid
Pineapple, canned, chunks	6.48	2,942	to combine with water
			requirements.
Pineapple juice and water	26.02	11,813	4. Combine the appropriate
Soy sauce	0.48	218	quantities of juice-water
Salt, table	0.12	54	mixture, soy sauce, salt,
Sugar, granulated	4.00	1,816	sugar, and flour to make a
Flour, rice	0.99	449	slurry. Add green peppers
Pepper, sweet, fresh,	1.99	903	and cook mixture for 5
diced 1"			minutes at 200°F.
Vinegar, white	2.25	1,022	5. Add cooked meat, vinegar,
			bean sprouts, and pineapple
			chunks. Blend and heat
			mixture to 180°F.
			6. Add vinegar, blend
			thoroughly. Adjust volume
			to 7 gallons.*2
			7. Weigh 9 oz. or 1 fluid
			cup per foil container.*3
			8. Cover, mark, and freeze.
Total.	90.42	41,051	

- 1. Reheat covered in oven at 325°F until internal temperature reaches at least 160°F.
- 2. Freeze-thaw stable starch may be used in lieu of rice flour.

 - *Critical Control Points: 1. Check preparation of meat and sauce.
 2. Check temperature and volume requirement.
 - 3. Check fill weight.

BARBECUED PORK LOIN

L-79(1)

Yield: 100 Portions

Each Portion: 4 oz. meat 4 oz sauce

Ingredients	Pounds	Grams	Procedure
Pork loin, boneless Salt, table Pepper, black	42.00 0.25 0.02	19,068 114 9	 Place seasoned roasts in pans. Do not add water or cover. Bake to an internal temperature of 170°F.*1 Drain fat and cool roast to 60°F before slicing.
Sauce Sugar, white, granulated Sugar, brown Mustard, ground Salt, table Hot sauce Meat sauce Tomato paste Vinegar, white Juice, lemon Water Salad oil	2.00 .25 .06 .03 .56 .30 4.00 0.50 6.00	908 114 27 27 14 254 136 1,816 227 2,724	3. Combine sauce ingredients and bring to a boil. Reduce heat and simmer until sauce is blended. (Approximately 30 minutes).
Flour, rice Water, tap	•16 •50	73 227 25,765	4. Dissolve flour in water and add to sauce. Heat for 5 minutes at 200°F. Adjust volume to 3.25 gallons blending thoroughly.*2 5. Slice roast in 2 oz slices placing 4 oz product per foil container. Pour 4 oz sauce over panned meat.*3 6. Cover, mark, and freeze.

NOTES:

Reheat covered in 325°F oven until product temperature reaches 160°F.
 Freeze—thaw stable starch may be used in lieu of rice flour.

*Critical Control Points: 1. Check preparation of meat and sauce.

2. Check temperature and volume requirements.

3. Check filling requirements.

SLICED PORK WITH GRAVY

Yield: 100 Portions

Each Portion: 4 oz meat
4 oz gravy

Ingredients	Pounds	Grams	Procedure
Pork loin, boneless	39.00	17,706	1. Rub pork with salt and
Salt, table	0.50	227	pepper; place in pans.
Pepper, black	0.06	27	2. Insert meat thermometer
	¥ 12		in the center of the thick-
t en e			est part of a roast. Do not
			add water or cover.
			3. Roast 2-4 hours or until
			product temperature reaches
			160°F (325°oven).*1
			4. Let stand 20 minutes in
		72	chilling box before slicing
			into 2 oz slices.
Meat drippings or	1.50	681	5. Place meat drippings or
shortening			shortening in steam kettle.
Flour, rice	1.12	508	6. Sprinkle flour evenly
	a.		over meat drippings or
18 m			shortening. Cook at 200°F
We the	20, 40		for 20 minutes, stirring
362 W 18 W 185 S S			constantly, to form roux.
Water, tap	16.80	7,627	7. Mix water, soup and gravy
Soup & gravy base, ham	0.50	227	base, and pepper together
Pepper, black	0.01	· · · · · · · · · · · · · · · · · · ·	and add to the roux.
A (4.00%) (4.00%)			8. Heat to 200°F for 10
		Villa 🐘	minutes. Adjust volume to
	***	H (1)	3.5 gallons.*2
	252	\$285	9. Place 4 oz of sliced
980 ⁵⁴	- 2		pork and 4 oz gravy per
	4	e)6	foil container.*3
8		4	10. Cover, mark, and freeze.
Total	59.49	27,008	

- 1. Reheat covered in oven at 350°F until internal temperature of the sliced pork reaches at least 160°F.
- 2. Freeze-thaw stable starch may be used in lieu of rice flour. Use starch on a 50-50 basis with general purpose flour.
 - *Critical Control Points: 1. Check preparation of meat.
 - 2. Check temperature and volume requirement.
 - 3. Check filling weights.

BAKED PORK SLICES WITH GRAVY

Yield: 100 Portions

Each Portion: 5 oz meat, 3 oz gravy

Ingredients	Pounds	Grams	Procedure
Pork, slices, boneless,	35.00	15,890	l. Mix flour, salt, pepper,
partially thawed			paprika, and thyme together
Flour, wheat, general	1.75	795	thoroughly. Dredge pork slices
purpose			in the seasoned flour. Shake
Salt, table	0.25	114	off excess.
Pepper, black	0.01	5	2. Place on sheet pans and
Paprika	0.03	14	2. Place on sheet pans and bake in 350°F oven until
Thyme	0.01	5	internal temperature reaches 160°F.*1
Brown gravy			
Flour, rice	1.10	199	Mix all dry ingredients
Pepper, black	0.01	5	together and add to water.
Soup & gravy base, ham	0.50	227	Stir vigorously to get
Water, tap	20.42	9,271	into solution.
-			4. Heat for 15 minutes at
			200°F, stirring constantly.
			5. Adjust to 2.4 gallons.*2
			6. Place one slice per foil
			container and cover with
			3 oz gravy.*3
			7. Cover, mark, and freeze.
Total	59.08	26,825	

- 1. Reheat in oven at 350°F until product internal temperature reaches no less than 160°F.
- 2. Freeze-thaw stable starch may be used in lieu of rice flour. Use starch on a 50-50 basis with general purpose flour.
- *Critical Control Points: 1. Check preparation of pork slices.
 2. Check temperature and volume requirements of gravy.
 - 3. Check for proper fill.

BREADED PORK SLICES

I~-86

Yield: 100 Portions

Temperature: 360°F deep fat

Ingredients	Pounds	Grams	Procedure
Pork slices, boneless	35.00	15,890	1. Dredge slices in seasoned flour and bread crumbs.
(partially thawed) Flour, wheat, general	1.75	795	frour and bread crumbs.
Salt, table	0.33	173	
Pepper, black	0.03	14	
Bread crumbs	4.00	1,816	
Milk, nonfat, dry	0.38	173	2. Reconstitute milk,
Water, tap	3 .5 0	1,589	combine with beaten eggs.
Eggs, whole, beaten	1.00	454	3. Dip slices in milk-egg mixture.
			4. Deep fat fry at 360°F until brown (2-3 minutes).*1
			5. Place one slice in each
			foil container. 6. Cover, mark, and freeze.
Total	46.04	20,904	

- 1. Reconstitute in 325°F oven to an internal temperature of 160°F (35-40 minutes).
- Other types of milk may be used in step 2.
 39 pounds pork loin, boneless may be used in step 1. Cut into chops weighing 3 oz each. Each portion: 2 chops.
 *Critical Control Point: 1. Check preparation methods.

BAKED HAM WITH CHERRY SAUCE

Yield: 100 Portions

Each Portion: 4 oz meat, 2 oz sauce

Ingredients	Pounds	Grams	Procedure
Ham, canned, whole	30.00	13,620	1. Slice ham in 2 oz slices.
			Place 4 oz per foil container.*1
Sauce			
Cherries, canned, RSP	6.44	2,924	2. Add sugar and salt to
Sugar, white, granulated	2.73	1,239	cherries. Bring to a boil
Salt	0.03	14	in a suitable size steam
Flour, rice	0.31	141	kettle.
Water, tap	2.00	908	3. Blend flour and water to
Butter or margarine, melte	ed 0.13	5 9	make a smooth paste.
Juice, lemon	0.25	114	4. Add paste to cherries,
•			stirring constantly. Cook
			5 minutes at 200 F.
			5. Add butter or margarine
			and juice. Adjust volume
			to 1.6 gallons.*2 Mix well.
			6. Add 2 oz sauce to
			prepanned ham.*3
			7. Cover, mark, and freeze.
Total	41.89	19,019	

Reheat covered in 325°F oven until internal temperature reaches 160°F.
 Freeze-thaw stable starch may be used in lieu of rice flour.

^{*}Critical Control Points: 1. Check slices for weight.
2. Check volume of sauce.

^{3.} Check fill weights.

GRILLED HAM WITH PINEAPPLE SAUCE

Yield: 100 Portions

Each Portion: 4 oz ham; 2 oz sauce

Ingredients	Pounds	Grams	Procedure
Ham, canned, whole	34.00	15,436	 Slice ham into 2 oz slices. Grill on 400 F grill. Place 4 oz per foil container.*1
Sauce Water, boiling Sugar, white, granulated Salt	6.00 5.00 0.02	2,724 2,270 9	3. In a suitable size steam kettle, add sugar and salt to water; stir until dissolved
Flour, rice Water, cold	0.50 2.00	227 908	4. Blend flour and cold water to make a smooth paste. Add paste to hot water, stirring constantly; cook 5 minutes at 200°F stirring constantly.
Butter or margarine Pineapple, canned, crushed Nutmeg, ground Juice, lemon Lemon rind, grated (optional)	1.00 6.81 0.01 0.25 0.19	454 3,092 5 114 86	5. Add remaining ingredients; mix and allow to return to boiling. Adjust volume to 1.6 gallons with hot water.*2 6. Place 2 oz sauce over prepanned ham slices.*3 7. Cover, mark, and freeze.
Total	55.78	25,325	

1. Reheat uncovered in 325°F oven until product temperature reaches 160°F.

2. 1 lb. lemons (A.P. (4 lemons)) will yield 3/4 cup juice.

3. Freeze-thaw stable starch may be used in lieu of rice flour.

*Critical Control Points: 1. Check ham slices for weight.

2. Check sauce for volume.

3. Check for proper fill weight.

Yield: 100 Portions

Each Portion: 1 triple rib, 4 ounce sauce 400°F oven and 325°F oven Temperature:

Ingredients	Pounds	Grams	Procedure
Pork Spareribs	55•00	24,970	1. Cut pork spareribs into three rib pieces, not more than $5\frac{1}{2}$ inches long and 4 inches wide. *1 2. Place ribs in single layer, fat side up in sheet pans. Bake 30-40 minutes at 400°F or until golden brown. 3. Place ribs in field pans, 50 portions per pan. Hold for Step 5.
Chili powder, dark	0.75	341	4. Combine all seasonings
Pepper, black	0.02	9	ingredients in steam kettle, mix
Pepper, cayenne	0.02	9	thoroughly and heat to a boil,
Salt, table	0.25	114	reduce heat and simmer 10 minutes.
Onion powder	0.07	32	Bring volume back to 4 gal with
Sugar, light brown	0.33	150	water, mix and heat to 180°F. *2
Paprika	0.11	50	Four sauce equally over ribs,
Flour, rice	0.30	136	making sure all ribs have sauce.
Capsup, tomato	23.00	10,442	Cover pans.
Worcestershire sauce	2.00	908	6. Bake at 325° F for $1\frac{1}{2}$ hours, or
Mustard, prepared	1.00	454	until ribs are tender (170°F). *3
Vinegar, cider or white	2.00	908	7. Place one triple rib in each
Lemon juice	0.75	341	foil pack container.
Water	5•00	2,270	8. Pour 4 ozs of sauce from pan over ribs in each foil pack container. *4 9. Cover, mark and freeze.
Total	90.60	41.134	

- 1. Reconstitute in 325°F oven to an internal temperature of 160°F. (30-40 min).
 2. Sheet pans = Length: 25 inches; width: 17 inches; depth: 1½ inches.
 3. Field lugs = Length: 20 inches; width: 17 inches; depth: 6½ inches.
 4. Freeze thaw stable starch may be used in lieu of rice flour.
- - *Critical Control Points: 1. Check dimensions of ribs.
 - Check volume for sauce. 2.
 - 3. Check temperature requirements.
 - 4. Check for proper fill.

Yield: 100 Portions

Each Portion: 1 triple rib, 4 ounces sauerkraut

Ingredients	Pounds	Grams	Procedure
Pork spareribs	55•00	24,970	1. Cut pork spareribs into three rib pieces, not more than $5\frac{1}{2}$ inches long and 4 inches wide. *1 2. Place ribs in single layer, fat side up in sheet pans. Bake 40 minutes at 400° F or until golden brown. 3. Drain and place ribs in field pans, 50 portions per pan. Hold for step 4.
Onions, dehydrated chopped	0,60	272	4. Combine onions, salt, pepper and water in steam
Salt, table	0.30	136	kettle. Heat to a boil and
Pepper, black	0.06	27	spread evenly over ribs.
Water, hot	20,00	9,080	5. Bake covered at 325° F for $1\frac{1}{2}$ to 2 hours or until ribs are tender $(170^{\circ}F)$ *2
Sauerkraut, canned drained	28,00	12,712	6. Place one triple rib in each foil pack container. Spread 4 ounces of canned sauerkraut over rib. *3
			7. Cover, mark and freeze.
Total	103.96	47,197	

- 1. Reconstitute at 325°F in oven covered to an internal temperature of 160°F (35-40 minutes).
- 2. 4.8 lbs of fresh chopped onions may be substituted for d hydrated onions in step 4.
- 3. Sheet pans = length: 25 inches; width: 17 inches; depth: $1\frac{1}{4}$ inches. 4. Field Pans = length: 20 inches; width: 17 inches; depth: $6\frac{1}{2}$ inches.
 - *Critical Control Points: 1. Check dimensions of ribs.
 - 2. Check for temperature requirements.
 - 3. Check for proper fill.

BARBECUED CHICKEN

Yield: 100 Portions

Each Portion: 2 pieces chicken, 4 ounces sauce

Temperature: 325°F_oven and 375°F oven

Ingredients	Pounds	Grams	Procedure
Chicken, broiler, fryer, cut-up	50.00	22,700	1. Separate legs, wings, breasts and thighs into individual pieces
Shortening	1.00	454	and place on greased pans. 2. Heat, uncovered in 375°F oven until slightly brown (20-30 minutes). Hold for step 6.
Onions, dehydrated, sliced	0.37	168	3. Combine water, flour and all
Worcestershire sauce	2.25	1,022	remaining seasonings into steam
Catsup, tomato	16.50	7,491	kettle and heat to 200°F.
Mustard, prepared	1.00	454	4. Simmer for 15 minutes. Hold
Sugar, light brown	2.50	1,135	for step 5.
Salt, table	0.65	295	
Pepper, black	0.01	5	
Pepper, cayenne	0.01	5	
Margarine or butter	1.00	454	
Flour, rice	0.35	159	
Water, tap	12.00	5,448	
Vinegar, white	4.00	1,816	5. Add vinegar, mix well and bring volume to 4 gal with hot water. *1 6. Pour sauce equally over each pan of chicken, cover and bake at 325°T to an internal temperature of 165°F (1½ hrs). *2 7. Place two pieces of cooked chicken in each foil pack container. *3 8. Pour 4 ozs of barbecue sauce over chicken. *3 9. Cover, mark and freeze.
Total	91.64	41,606	

- Reconstitute in a $325^{\circ}F$ oven to an internal temperature of $160^{\circ}F$. (35-40 minutes). 1.
- 2. The following is a suggested method of panning; breast-leg, breast-leg, thigh-wing, thigh-wing.
 Pans used in cooking can be either full steam table or field pans.
- 3.
- Freeze thaw stable starch may be used in lieu of rice flour.
 - *Critical Control Points: 1. Check volume.
 2. Check internal temperature.

 - 3. Check for proper fill.

Yield: 100 Portions

Each Portion: 1 cup plus topping

Ingredients	Pounds	Grams	Procedure
Chicken, whole, raw Water, tap Salt, table Monosodium glutamate Bay leaves, ground fine	45.00 13.42 0.35 0.18 0.01	20,430 6,093 159 82 5	1. Place whole chickens in deep sided pans. Mix seasoning with water and divide equally among pans. Cover and place in steam oven and cook for approx. 45 min. or until chicken reaches 175°F. After cooking, drain stock and retain for use in step 3. Place cooked chicken in cooler to bring temperature down enough to handle. Debone and save for use in step 6. *1
Butter or margarine Flour, wheat, general purpose	0.94 1.18	427 536	2. Melt margarine in kettle to be used for batch. Add flour and cook to a smooth sauce.
Chicken stock Pepper, black Celery salt Salt, table	22.52 0.02 0.02 0.05	10,224 9 9 23	3. Add chicken stock and seasonings. Mix thoroughly.
Potatoes, raw, diced 12" Carrots, raw, sliced 2" Peas, frozen	3.78 3.78 6.11	1,716 1,716 2,774	4. Add carrots and potatoes. Cook until vegetables are slightly undercooked. Then add peas, heating to 180°F. *2
Flour, rice	0.93	422	5. Mix flour with a small amount of water in a separate container to make a slurry. Turn off heat and slowly add slurry while stirring constantly. Cook 5 minutes at 200°F.
Topping mixture	5.00	2,270	6. Add deboned chicken and mix thoroughly. Heat contents to 180°F. Adjust volume to 6.25 gallons. *2 7. Fill foil containers with 8 ozs of chicken mix. *3 8. Add one or two cooked dough strip to panned chicken mixture. 9. Cover, mark and freeze.
Total	103.29	46,895	70 OOYOZY MAZIN CANCE IZOOZOG

CHICKEN POT PIE

NOTES:

1. Reheat covered in oven at 325°F until internal temperature reaches 160°F. Remove cover for 10 min. or until topping is browned.

2. Cooked deboned chicken may be substituted for the whole raw chickens at the rate of 1 lb. of cooked per 3 lbs. of raw whole chicken. Substitute 12 ozs. soup and gravy base (chicken) plus 22 lbs. water for chicken stock.

3. Freeze thaw stable starch may be used in lieu of rice flour.

CHICKEN POT PIE TOPPING

Ingredients	Pounds	Grams	Procedure
Flour, sifted, general	2 -33	1,058	1. Using a suitable mixer,
purpose			blend the dry ingredients
Milk, nonfat, dry	0.15	68	together.
Baking powder	0.10	45	
Salt, table	0.05	23	
Sugar, white, granulated	0.05	23	
Shortening	0.78	354	2. Blend shortening into dry
			ingredients until mixture
			resembles coarse crumbs. Do
·			not over mix.
Water	1.55	704	Gradually add water and
			mix only enough to form a soft
			dough.
			4. Place dough on lightly
			floured board, kneeding light-
			ly about 1 min. or until dough
			is smooth.
			5. Roll out to uniform thick-
			ness of $\frac{1}{2}$ inch. *1
			6. Cut into 1 inch strips
			approx. 6 inches long. *1
			7. Bake for 15 min. in a
			preheated 425°F oven. *1, 2
			8. When baked place strips over
			pot pie.
Total	5.0	2,275	

^{*}Critical Control Points: 1. Check preparation methods.

^{2.} Check temperature requirements and volume.

^{3.} Check for proper fill.

Yield: 100 Portions

Each Portion: 8 ounces

Ingredients	Pounds	Grams	Procedure
Chicken breasts, cooked deboned, defatted, diced	24.00	10,896	1. Remove fat and bone from breasts. Place 10 lbs. in each full size steam table pan, cover and cook in low pressure steam (7-10 psi) 170°F. internal temperature. *1 2. Cool slightly and dice ½ inch by 1 inch pieces. Set aside for step 4.
Tomatoes, canned, crushed	10.50	4,767	Combine all ingredients
Tomato paste, canned	4.50	2,043	except chicken in steam kettle,
Mushrooms, drained, diced	3.60	1 , 634	mix thoroughly and heat to a
ੈਂ x ੋਂ "			boil.
Water, tap, cold	21.00	9,534	4. Add cooked diced chicken to
Soup and gravy base, chicken flavored	0.50	227	season mixture, mix well and simmer for 15 minutes. *1
Salt, table	0.27	123	5. Bring volume of mixture
Pepper, black	0.01	5	back to 7 gal with hot water. *2
Onions, dehydrated, sliced	0.30	136	6. Place 8 ozs in each foil
Thyme, ground	0.01	5	pack container. *3
Pepper, cayenne	0.01	5	7. Cover, mark and freeze.
Allspice, ground	0.01	5	
Garlic powder	0.01	5	
Chili powder	0.09	41	
Flour, rice	0.70	318	
Total	65.51	29.744	

- 1. 2.4 pounds of fresh chopped onions may be substituted for dehydrated onions in step 3.
- 2. Formula makes 100 servings.
- 3. Reconstitute in oven covered at 350°F to an internal temperature of 160°F (35-40 minutes).
- 4. Whole chickens may be substituted for chicken breasts in step 1. Procedure is the same as listed except bone and skin is removed after cooking.
- 5. One 3 pound whole chicken will yield 1 pound of cooked, deboned, defatted, diced chicken meat.
- 6. Pre-cooked chicken rolls may be substituted for chicken in step 1.
- 7. Fresh or frozen chicken breasts should weigh at least 32 pounds to produce
- 24 pounds cooked, deboned, defatted and diced chicken as stated by formula.
- 8. Freeze thaw stable starch may be used in lieu of rice flour.
 - *Critical Control Points: 1. Check preparation methods.
 - 2. Check temperature and volume requirements.
 - 3. Check for proper fill.

COUNTRY STYLE CHICKEN (MARYLAND FRIED)

<u>L-135</u>

Yield: 100 Portions

Each Portion: 2 pieces chicken, 4 ounces gravy

Temperature: 325°F oven, 360°F deep fat

Ingredients	Pounds	Grams	Procedure
Chicken, broiler,	50.00	22,700	l. Wash chicken pieces
fryer, cut-up			thoroughly under running water. Drain well.
Flour, wheat, general	4.00	1,816	2. Dredge chicken in seasoned
purpose	•	•	flour; shake off excess.
Salt, table	0.50	227	3. Deep fat fry at 360°F until
Pepper, black	0.02	9	brown (3-5 minutes). *1, 2
Paprika, ground	0.02	9	
Water, hot	8.00	3,632	4. Separate chicken pieces and place in individual full size steam table pans. Add 1 qt. of water to each pan. 5. Cover pans and bake 45 min. or until chicken reaches an internal temperature of 165°F.*26. Place two pieces of chicken in each foil container. Hold for Step 11.
Starch, Col Flo 67	0.75	341	7. Combine all ingredients
Milk, nonfat, dry	0.75	341	together, mix well and add to
Water or stock	28,00	12,712	steam kettle. Heat to 180°F.
Soup and gravy base, chicken	0.75	341	Hold for Step 9.
Shortening	1.80	817	8. Heat shortening in separate
Flour, rice	1.50	681	steam kettle, sprinkle flour evenly over shortening. Mix thoroughly and cook 5 minutes. 9. Add starch, milk, soup and gravy mixture from Step 7 to flour, heat to 200°F, and cook 15 minutes with constant stirring.*2 10. Bring volume back to 3.5 gallons with hot water.*3 11. Place 4 ounces of gravy over chicken in each foil container.*4 12. Cover, mark, and freeze.
Total	96.19	43,626	

COUNTRY STYLE CHICKEN (MARYLAND FRIED)

L-135

- In step 3, chicken may be browned in oven at 400°F for 20 minutes.
 Other types of milk may be used in step 7, such as whole white.
- 3. Reconstitute in oven covered at 325°F to an internal temperature of 160°F (35-40 minutes).
- 4. Freeze thaw stable starch may be used in lieu of rice flour.

 - *Critical Control Points: 1. Check preparation methods.
 - 2. Check temperature requirements.
 - Check volume. 3•
 - Check for proper fill.

Yield: 100 Portions

Each Portion: 2 pieces Temperature: 325°F oven

Ingredients	Pounds	Grams	Procedure
Chicken, broiler	50.00	22,700	1. Separate pieces of chicken
fryer, cut-up			into individual parts (wings,
			legs, thighs, breasts). Wash
			thoroughly. Drain well.
Milk, nonfat, dry	0.40	182	2. Reconstitute milk with
Water, cold, tap	2.75	1,249	water; add eggs and mix
Eggs, whole, beaten	2.00	908	thoroughly. Dip chicken in egg
			mixture. Drain and save for
			step 4.
			Note: Do not hold dipped
			chicken over 30 min. before
			frying). *1
Flour, wheat, general	3.00	1,362	Combine flour, salt,
purpose			pepper, paprika and bread
Salt, table	0.50	227	crumbs, mix thoroughly.
Pepper, black	0.01	5	4. Dredge chicken in seasoned
Bread crumbs	۰,00	2,270	flour. Shake off excess.
Paprika, ground	0.02	9	5. Brown chicken in deep fat
·			fryer at 365°F for 45 seconds
			or until brown. *2
			6. Place browned chicken in
			open pans and bake at 350°F in
			oven to an internal tempera-
			ture of 165°F (45 min.). *2
			7. Place two pieces in each
			foil pack container. *3
			8. Cover, mark and freeze.
Total	63.68	28,912	

NOTE: 1. Reconstitute in 325°F oven to an internal temperature of 160°F. (35-40 minutes).

2. The following is a suggested method of panning: Breast leg, breast-leg, thigh-wing, thigh wing.
*Critical Control Points: 1. Check preparation methods.

2. Check temperature requirements.

Check for proper fill.

Yield: 100 Portions

Each Portion: 4.5 oz turkey, 4.0 oz gravy

Ingredients	Pounds	Grams	Procedure
Turkey, boneless, cooked (Class A Roll)**	28,00	12,712	1. Slice turkey in 1/8" slices. 2. Place 4.5 oz of turkey per foil container. *1
Gravy	2.05	4 000	
Flour, rice	2.25	1,022	Mix all dry ingredients
Water, tap	25 . 00	11,350	with water using a wire whip
Soup and gravy base,	0.75	341	to blend.
chicken			4. Pour into steam kettle.
Pepper, black	0.01	5	Turn on steam and mixer, full
Caramel coloring, powdered	<u>1</u> /	1	speed. Heat to thicken flour rice (5 min. at 200°F). Adjust volume to 3.25 gals.
			5. Pour 4 oz gravy over panned meat. *36. Cover, mark and freeze.
Total	56.01	25,431	

^{1.} Reheat in oven at $350^{\circ}\mathrm{F}$ until product internal temperature is no less than $160^{\circ}\mathrm{F}_{\bullet}$

^{2.} Freeze-thaw stable starch may be used in lieu of rice flour. Use starch on a 50-50 basis with general purpose flour.

^{*}Critical Control Points: 1. Check for proper fill.

^{2.} Check temperature and volume requirements.

^{3.} Check for proper fill.

^{**}RTC Turkey Roll may be used @ 42 1bs instead of cooked turkey roll. 1/ 0.001 lb.

VEAL LOAF WITH BROWN GRAVY

Yield: 100 Portions

Each Portion: 6 ounces meat, 4 ounces gravy

Temperature: 325°F cven

Ingredients	Pounds	Grams	Procedure
Onions, dehydrated	0.18	82	1. Rehydrate onions in excess
chopped			water for 10 min. Drain.
Peppers, sweet, fresh,	0.50	227	2. Saute vegetables in shorten-
green, 1/8" chopped			ing until lightly browned, cool
Celery, fresh, 1/8" chopped	1.00	454	slightly and add to step 3. *1
Shortening	0.50	227	
Veal, boneless, ground	20.00	9,080	3. Combine sauteed vegetables,
Beef, boneless, ground	10.00	4,540	bread crumbs, beef, eggs,
Eggs, whole, beaten	1.30	590	
Salt, table	0.40	182	mechanical mixer. Mix lightly
Pepper, black	0.03	14	(enough to complete mixing).
Bread crumbs, dry	4.00	1,816	4. Place 1½ lbs. of veal loaf
Water, tap	6.00	2,724	
Shortening	0.50	227	x 2-3/4 inches deep). *1
_			5. Heat in 325°F oven to an
			internal temperature of 165°F
			(1 hr., 20 min.). *2 Place
			in freezer or refrigerator to
			bring temperature down to 60°F
			and slice into 3 oz slices
			(9/16")。 *3
			6. Place 2 slices to each
			foil container and hold for
			step 11.
Gravy		(44	m 1 0 1 to along looking
Meat drippings and clear	1.50	681	7. Heat fat in steam kettle.
fat or shortening	1 50	681	8. Sprinkle flour evenly over
Flour, rice	1.50	001	fat and cook 10 min. with
			constant stirring.
Stock on water cold	23.50	10,669	
Stock or water, cold	0.01	5	remaining ingredients together
Pepper, black Caramel coloring	0.01	5	
	0.40	182	to fat and flour. Mix well and
Soup and gravy base, beef	0.40	102	cook at 180°F for 15 min. *1, 2
near			10. Adjust volume to 3.25 gals.
			with hot water. *4
			11-11-11-11-11-11-11-11-11-11-11-11-11-

VEAL LOAF WITH BROWN GRAVY

L-35-1

Ingredients	Pounds	Grams	Procedure
			11. Pour 4 ounces of gravy over each pan of veal. *5 12. Cover, mark and freeze.
Total	71.33	32,386	

- 1. 1.26 pounds of fresh onions may be used in step 1.
 2. 1.50 ounces of dehydrated green peppers may be used in step 2.
 3. Reconstitute in 325°F to an internal temperature of 160°F (35-40 minutes).
- 4. Bread dry broken may be substituted for bread crumbs as follows: place formula water from step 3 in broken bread and whip until large pieces are unidentifiable. Press out and discard excess water.
- 5. Freeze-thaw stable starch may be used in lieu of rice flour. Use starch on a 50-50 basis with general purpose flour.

 - *Critical Control Points: 1. Check preparation methods.
 - 2. Check temperature requirements.3. Check for proper weights.

 - 4. Check for volume.
 - 5. Check for proper fill.

Yield: 100 Portions

Each Portion: 1 foil container 2/3 cup

Ingredients	Pounds	Grams	Procedure
Potatoes, white, instant	6.00	2,724	1. Blend potatoes and non- fat dry milk together. Set
Milk, nonfat, dry	0.75	340	
Water, boiling	27.00	12,258	2. Add water, butter or
Butter or margarine	1.00	454	margarine, and salt to mixer
Salt	0.12	57	bowl. Stir to blend.
			On low speed, rapidly add dry mixture to liquid;
			mix 1/2 minute. Stop
			machine and scrape down
			sides and bottom of bowl.
Pepper, black	0•01	5	4. Add pepper. Whip on high speed about 2 minutes or until light and fluffy. Do not over whip.
			5. Add approximately 6 oz. (2/3 cups) to each foil
			container.
	01 00	4 = 454	6. Cover, mark and freeze.
Total	34.88	15,838	

^{1.} Consistency may be controlled by taking out 2 qts of the hot liquid before adding potatoes.

^{2.} Add the 2 qts in step 4 during the whipping until proper consistency is obtained.

^{3.} If potatoes become dry while standing, add hot milk or hot water and remix.

^{4.} Reheat covered in oven at 325°F until internal temperature reaches 160°F.

Yield: 100 Portions

Each Portion: 1 foil container (5 oz)

Ingredients	Pounds	Grams	Procedure
Potatoes, white, fresh quartered (1-½ x 1-½ x 1 inch) Antioxidant compound 1/	35•00	15,890	1. Peel potatoes and rinse thoroughly. Trim as necessary. Keep submerged in water bath. Cut into quarters approximately $1\frac{1}{2}$ x $1\frac{1}{2}$ x 1 inch. (Keep potatoes submerged in antioxidant solution while not being processed). 2. Steam potatoes until almost but not completely cooked (approximately 10 min. at 5 to 7 pounds pressure). 3. Cool potatoes rapidly in a cold water bath to approx. 70 F. 4. Drain potatoes and dry thoroughly. 5. Fry in deep fat fryer at 375°F for 80 seconds. Set aside for use in step 7. *1
Peppers, sweet, fresh, finely chopped (1/8 inch)	1.00	454	6. Saute peppers and pimientos in shortening 5 min.
Pimientos, canned, drained, finely chopped (1/8 inch)	0.33	150	or until tender.
Shortening	0.50	227	
Salt	0.19	86	7. Add sauteed peppers and
Pepper, black	0.01	5	pimientos to potatoes. Sprinkle with salt and pepper and mix gently.
			8. Place 5 ozs of O'Brien potatoes in each foil container. 9. Cover, mark and freeze.
Total	37.03	16,812	

NOTES:

^{1.} One (1) 7 oz can of pimientos will yield $5\frac{1}{4}$ ozs of pimiento pieces.
2. One (1) No. $2\frac{1}{4}$ can of pimientos will yield 20 ozs of pimiento pieces.
3. Reheat, uncovered in oven at 350° F until internal temperature reaches at least 160° F.

^{1/} Added at rate of 13 g. per gallon of water. *Critical Control Point: 1. Product temperature and time.

GLAZED SWEET POTATOES

Yield: 100 Portions

Each Portion: 1 foil container (502)

Ingredients	Pounds	Grams	Procedure
Potatoes, sweet, canned in syrup, drained	22.50	10,215	1. Place 2-3 pieces of drained sweet potatoes weigh-
Butter or margarine	1,00	454	ing approximately 3.6 ozs (102 gm) in each foil container. 2. Add 4.5 gm (1/3 tbsp) butter over potatoes.
Sugar, brown	5.00	2,270	3. Place syrup (or water) in
Salt	0.09	41	Hobart mixer bowl. Add brown
Cornstarch	0.31	141	sugar, salt and cornstarch.
Syrup (Sweet Potato) or water	4.00	1,816	Blend with wire whip. Transfer mixture to steam jacketed kettle at least 4-5 times the volume of the syrup mixture. (Syrup increases in volume 2-3 times when boiled.) Bring to a boil, stirring constantly, and simmer 5 min. *1 4. Add 45 gms (1½ tbsp) of the syrup to each foil con- tainer. 5. Cover, mark and freeze.
Total	32.90	14,937	

^{1.} Reheat, uncovered, in oven at 325°F until internal temperature reaches 160°F. *Critical Control Point: 1. Product temperature and time.

Yield: 100 Portions

Each Portion: 1 foil container 5 oz.

Ingredients	Pounds	Grams	Procedure
Potatoes, white, fresh, (in season) peeled, sliced 3/8" thick, blanched Antioxidant compound 1/	35•00	15,890	1. Peel potatoes and rinse thoroughly. Trim as necessary. Keep submerged in water bath. Slice potatoes 5/16" ± 1/16" thick. Cut large potatoes
Water, cold	8.30	3,768	(over 2" diameter) in half before slicing, so that no slice is over 2" in diameter. Keep potatoes submerged in antioxidant solution while not being processed. Steam blanch potato slices for 11 minutes or until just cooked, but not over cooked. Cool potatoes immediately to 50°F being careful to avoid damaging them. Drain potatoes thoroughly. 2. Place approximately 5 oz potatoes in each foil container.
Water Flour, general	9.30 0.75	4,222 341	3. Blend dry ingredients in Hobart mixer on slow speed with
purpose, sifted Salt	0.13 0.00	59 2	flat beater. Gradually add water to form a smooth slurry.
Mustard, ground	1.50	681	Transfer slurry to steam
Butter	3.00	1,362	jacketed kettle, add butter,
Cheese, cheddar, ground	1.25	568	heat under low steam until
Milk, nonfat, dry	2.00	908	slurry thickens, stirring constantly. Simmer 5 minutes. Turn off steam valve and blend in reconstituted milk and ground cheese. Run cold water through kettle jacket and cool sauce to 70°F *1 stirring constantly. 4. Add 2½ oz (1/4 cup) of sauce to each foil container.

Ingredients	Pounds	Grams	Procedure
Bread crumbs, dry Butter, melted Cheese, cheddar, ground	2.00 1.00 1.00	908 454 454	5. Melt butter, Blend in crumbs. Turn off heat. Add cheese and mix. Sprinkle 1 tbsp of mixture over potatoes in each foil container. 6. Cover, mark and freeze.
Total	65.23	29,617	

^{1. 45} lb of white potatoes A. P. yields 35 lbs peeled potatoes. Seven lbs of potatoes, dehydrated, sliced may be substituted for potatoes, white; fresh.

2. Preparation: Reheat covered in oven at 325°F until internal temperature reaches 160°F.

^{1/} Added at rate of 13 g. per gallon of water.
 *Critical Control Point: 1. Product temperature.

FRENCH FRIED POTATOES

Q-45

Yield: 100 Portions

Each Portion: 1 foil container (5 oz)

Ingredients	Pounds	Grams	Procedure
Potatoes, French fried frozen	35•00	15,890	1. Fry frozen French fried potatoes in deep fat fryer at 375°F for 3 minutes or until golden brown. (Fill fry basket 1/3 full). *1 2. Drain well in basket or on absorbent paper.
Salt	0.13	59	3. Sprinkle potatoes with salt.4. Place approximately 5 oz in each foil container.5. Cover, mark and freeze.
Total	35.13	15,949	

^{1.} Reheat uncovered in oven at 350°F until internal temperature reach 160°F.

^{*}Critical Control Point: 1. Product temperature and time and volume.

MASHED SWEET POTATOES

Yield: 100 Portions

Each Portion: 1 foil container 2/3 cup

Ingredients	Pounds	Grams	Procedure
Milk, nonfat, dry Water, warm	0.41 0.88	186 400	 Reconstitute milk in mixer bowl.
Potatoes, sweet, canned	22.50	10,215	Add sweet potatoes; heat on low speed until free from lumps.
Salt Butter or margarine, melted Sugar, granulated	0.13 1.00 0.50	59 454 227	3. Add remaining ingredients;blend on medium speed.4. Scrape down bowl; beat on high speed 2 minutes or until potatoes are smooth.
			5. Place 2/3 cup in each foil container. 6. Cover, mark and freeze.
Total	25.42	11,541	

^{1.} Other types of milk may be used in step 1. See Recipe Card A-9. 2. Reheat covered in oven at 325°F until internal temperature reaches 160°F.

BUTTERED MIXED VEGETABLES

Q-G-3

Yield: 100 Portions

Each Portion: 1 foil container 1/2 Cup

Ingredient	Pounds	Grams	Procedure
Vegetables, mixed, frozen	20.00	9,080	1. Tap packages of mixed vegetables lightly to break up solid blocks. Place vegetables in jet steamer; cook at 5 lb pressure for 5 to 8 minutes or until tender.
Butter or margarine, melted	1.00	454	 Season with melted butter or margarine, toss lightly. Place 1/2 cup in each foil container. Cover, mark and freeze.
Total	21,00	9,534	

^{1.} Reheat covered in oven at 325°F until internal temperature reaches at least 160°F.

BUTTERED PEAS

Yield: 100 Portions

Each Portion: 1 foil container 1/2 Cup

Ingredients	Pounds	Grams	Procedure
Peas, frozen	20,00	9,080	1. Tap packages of peas lightly to break up solid blocks. Place peas in jet steamer; cook at 5 1b pressure for 5 to 8 min. or until just tender.
Butter or margarine, melted	1.00	454	 Season with melted butter or margarine. Toss lightly. Place 1/2 cup in each foil container. Cover, mark and freeze.
Total	21.00	9,534	

^{1.} Reheat covered in oven at 325°F until internal temperature reaches 160°F.

BUTTERED PEAS AND CARROTS

Q-G-3

Yield: 100 Portions

Each Portion: 1 foil container 1/2 Cup

Ingredients	Pounds	Grams	Procedure
Peas, carrots, frozen	20,00	9,080	1. Tap packages lightly to break up solid blocks. Place peas and carrots in jet steamer; cook at 5 lb pressure for 5 to 8 minutes until tender.
Butter or margarine, melted	1.00	454	 Season with melted butter or margarine. Toss lightly. Place 1/2 cup in each foil container. Cover, mark and freeze.
Total	21,00	9.534	

1. Reheat covered in oven at 325°F until internal temperature reaches 160°F.

BUTTERED GREEN BEANS

Q-G-3

Yield: 100 Portions

Each Portion: 1 foil container 1/2 cup

Ingredients	Pounds	Grams	Procedure
Beans, green, frozen	20,00	9,080	1. Tap packages of green beans lightly to break up solid blocks. Place green beans in jet steamer; cook at 5 lb pressure for 5 to 8 minutes or until just tender.
Butter or margarine, melted	1.00	454	 Season with melted butter or margarine. Toss lightly.
			3. Add 1/2 cup to each foil container. 4. Cover, mark and freeze.
Total	21.00	9,534	

^{1.} Reheat covered in oven at $325^{\circ}F$ until internal temperature reaches $160^{\circ}F$.

BUTTERED WHITE GRAIN CORN

Q-G-3

Yield: 100 Portions

Each Portion: 1 foil container 1/2 cup

Ingredients	Pounds	Grams	Procedure
Corn, whole grain, frozen	20.00	9,080	1. Tap packages of corn lightly to break up solid blocks. Place corn in jet steamer; cook at 5 lb pressure for 5 to 8 minutes or until just tender.
Butter or margarine, melted	1.00	454	 Season with melted butter or margarine. Toss lightly. Place 1/2 cup in each foil container.
			4. Cover, mark and freeze.
Total	21.00	9,534	

MOTTES.

^{1.} Reheat covered in oven at $325^{\circ}F$ until internal temperature reaches $160^{\circ}F_{\bullet}$

BUTTERED LIMA BEANS

Q-G-3

Yield: 100 Portions

Each Portion: 1 foil container 1/2 cup

Ingredients	Pounds	Grams	Procedure
Beans, lima, frozen	20,00	9,080	1. Tap packages of lima beans lightly to break up solid blocks. Place lima beans in jet steamer; cook at 5 lb pressure for 5 to 8 minutes or until just tender.
Butter or margarine, melted	1.00	454	 Season with melted butter or margarine. Toss lightly. Place 1/2 cup in each foil container. Cover, mark and freeze.
Total	21.00	9.534	

NOTES -

^{1.} Reheat covered in oven at $325^{\circ}\mathrm{F}$ until internal temperature reaches $160^{\circ}\mathrm{F}_{\bullet}$

BUTTERED SUCCOTASH

Q-G-3

Yield: 100 Portions

Each Portion: 1 foil container 1/2 cup

Ingredients	Pounds	Grams	Procedure
Succotash, frozen	20.00	9,080	1. Tap packages lightly to break up solid blocks. Place succotash in jet steamer; cook at 5 lb pressure for 5 to 8 minutes or until just tender.
Butter or margarine, melted	1.00	454	 Season with melted butter or margarine. Toss lightly. Place 1/2 cup in each foil container. Cover, mark and freeze.
Total	21.00	9,534	

^{1.} Reheat covered in oven at $325^{\circ}F$ until internal temperature reaches $160^{\circ}F$.

BAKED MACARONI AND CHEESE

Yield: 100 Portions

Each Portion: 1 foil container 1 cup (5 oz)

Ingredients	Pounds	Grams	Procedure
Macaroni Water, boiling Salt	5,00	2,270	1. Add macaroni slowly to 4 gallons of salted water containing 114 g. of salt and boil 15 min. or until tender; stir occasionally to prevent sticking. 2. Drain. Rinse, if macaroni is starchy. Set aside for use in step 7.
Milk, nonfat, dry Water, warm	2.00 20.75	908 9 , 307	3. Reconstitute milk; heat to just below boiling. DO NOT BOIL. *1
Butter or margarine, melted	1.50	681	4. Blend butter or margarine and flour together; stir until
Flour, wheat, general purpose, sifted	1.13	513	smooth. Add roux to hot milk, stirring constantly.
Salt Pepper, black	0•25 0•02	114 9	5. Add salt and pepper. Bring mixture to a boil; reduce heat and simmer 5 min. or until thickened. Stir frequently to prevent scorching.
Cheese, ground	5.00	2,270	6. Add cheese to sauce; stir only until smooth.
Bread crumbs, dry Butter or margarine, melted	1.00 0.50	454 227	7. Combine sauce and macaroni; mix gently. 8. Place approx. 6 oz (1 cup) in each foil container. 9. Combine bread crumbs and melted butter or margarine; sprinkle over mixture in each foil container. 10. Cover, mark and freeze.
Total	37.15	16,753	200 00,029

NOTES:

^{1.} Reheat, uncovered in oven at $325^{\circ}F$ until internal temperature reaches $160^{\circ}F$.

^{*}Critical Control Point: 1. Do not boil.

BOSTON BAKED BEANS

Yield: 100 Portions

Each Portion: 1 foil container 3/4 cup

Ingredients	Pounds	Grams	Procedure
Beans, kidney, lima, or white dry	16•00	7,264	 Wash beans thoroughly. Cover with 5 gallons of cold water, bring to a boil; boil 2 minutes; turn off heat. Cover and let soak 1 hour or if more convenient, cool and let beans soak overnight in refrigerator.
Water, hot		to cover	4. Bring beans to a boil; add water to cover beans if necessary. Simmer 1½ hours or until beans are just tender.
Salt	0.38	170	5. Combine all ingredients.
Sugar, brown	2.00	908	Add to beans, mix thoroughly.
Mustard, ground	0.13	57	6. Place approximately 5 oz in
Molasses	3.00	1,362	each foil container. Bake 3 to
Bacon, chopped	3.00	1,362	4 hours in covered pans at 350°F.
Vinegar	0•25	114	*1 Cover may be removed for the last hour to allow beans to brown. (Add hot water periodically if necessary to keep beans moist). 7. Cover, mark and freeze.
Total	24.76	11,237	

^{1.} Reheat covered in oven at $325^{\circ}F$ until internal temperature reaches $160^{\circ}F_{\bullet}$

^{*}Critical Control Point: 1. Product temperature and time.

Yield: 100 Portions

Each Portion: 1 foil container 3/4 cup

Ingredients	Pounds	Grams	Procedure
Rice	10.00	4,540	1. Combine all ingredients;
Water, cold	24.9	11,305	bring to a boil. Stir occasion-
Salt	0.25	114	ally.
Salad oil	0.25	114	2. Cover tightly and simmer 25 minutes. DO NOT STIR. *1 If rice is not tender, continue cooking 2 to 3 minutes longer. 3. Uncover and allow rice to steam dry 5 to 7 minutes. 4. Place 3/4 cup of rice in each foil container. 5. Cover, mark and freeze.

Butter - For buttered rice, add one patty to each container.

Total 35.40 16,073

- 1. Rice may be cooked in a 350°F oven. Substitute boiling water for cold water, place all ingredients in shallow pans; stir, cover and bake 30 to 40 minutes.
- 2. Rice may be cooked in a sectional steamer. Use only $2\frac{1}{4}$ gallon of boiling water; place all ingredients in steamer pan; stir and steam approximately 20 minutes.
- 3. Chicken or beef stock may be substituted for water. If Soup and Gravy base, beef or chicken, is used, decrease salt to 0.125 lb (57 g).
- 4. Reheat covered in oven at 325°F until internal temperature reaches 160°F. *Critical Control Point: 1. Do not stir.

SIMMERED DRY BEANS

(kidney, lima, pinto and white)
 (black-eyed peas)

Yield: 100 Portions

Each Portion: 1 foil container 1/2 cup

Ingredients	Pounds	Grams	Procedure
Black-eyed peas Beans, kidney, lima, pinto, or white, dry	8.00 20.00	3,632 9,080	 Pick over and wash beans thoroughly. Cover peas and beans with 5 gallons of cold water; bring to a boil; boil 2 minutes. Turn off heat
Bacon, chopped Salt Pepper, black Water	2.00 0.16 0.02 As req	908 71 9 quired	3. Add bacon, seasonings and water to beans. 4. Bring to boil; cover. Simmer 1½ hours or until beans are tender, but not mushy. Add boiling water if beans become dry. 5. Place approximately 4 oz (1/2 cup) of finished product in each foil container. 6. Cover, mark and freeze.
Total	30.18	13,700	

^{1.} Reheat covered in oven at $325^{\circ}\mathrm{F}$ until internal temperature reaches $160^{\circ}\mathrm{F}_{\bullet}$

BROWNIES, CHOCOLATE

Yield: 100 Portions

Each Portion: 1 Brownie

Ingredients	Pounds	Grams	Procedure
Brownie Mix	15•00	6,810	1. Place contents of 3 No. 10 cans of mix, including soda from the packets, into a mixing bowl. Mix in soda for 1 minute on low speed.
Water	3.00	1,362	2. Add water and mix on low speed for 1 minute. Scrape bowl. Mix on medium speed 2 minutes.
Nuts, chopped	2.25	1,022	3. Mix in nuts for 30 seconds on low speed. 4. Deposit 3 oz of batter into each greased small foil container. 5. Bake approximately 20 min. at 350°F (176.7°C). 6. Cool, cover, mark and freeze.
Total	20.25	9,194	

NOTE:

DEVIL'S FOOD CAKE WITH BUTTER CREAM FROSTING

Yield: 100 Portions

Each Portion: 1 Cake

Ingredients	Pounds	Grams	Procedure
Cake Mix, devil's food Water	10•00 4•75	4,540 2,157	1. Place contents of 2 No. 10 cans of cake mix, including soda from packets, into a mixing bowl. Mix in soda for 1 minute on low speed. 2. Add 1/2 amount of water. Mix 1 minute on low, scrape bowl. Mix 2 minutes on medium. 3. Add remaining water. Mix 1 min. on low, scrape bowl. Mix 2 min. on medium. 4. Scale 2 oz (56.7g) batter into each small foil container. 5. Bake at 365°F (185°C) for approx. 15 min. All to cool before icing.
Butter or margarine Sugar, powdered, sifted	1.25 4.75	568 2,157	6. Cream butter or margarine on medium speed for 3 min. 7. Sift together sugar, salt,
Salt	0.01	5	and milk; add to creamed mixture,
Milk, nonfat, dry	0.13	59	Mix 1 min. on low speed.
Water	0.37	168	8. Combine water and vanilla:
Vanil <u>l</u> a	0.06	27	add slowly to creamed mixture while beating at low speed. Beat until moisture is absorbed. Scrape bowl. Beat at medium speed 5 minutes. 9. Spread icing over each individual cake. 10. Cover, mark and freeze.
Total	21.32	9,681	

NOTE:

PINEAPPLE UPSIDE DOWN CAKE

Yield: 100 Portions

Each Portion: 1 Cake

Ingredients	Pounds	Grams	Procedure
Butter Brown sugar	1.50 3.00	681 1,362	1. Beat butter and sugar for 5 min. on medium speed. 2. Place approximately 3/4 oz (21 g) of this mixture into each small foil container.
Pineapple, crushed, cardrained	ned, 6.00	2,724	3. Place 1 oz (28.4 g) drain- ed pineapple evenly over the sugar mixture in each con- tainer.
Cake Mix, yellow Water	10.00 4.75	4,540 2,157	4. Place contents of 2 No. 10 cans of cake mix, including soda from packets, into a mixing bowl. Mix in soda for 1 minute on low speed. 5. Add 1/2 amount of water. Mix 1 min. on low, scrape bowl. Mix 2 min. on medium. 6. Add remaining water. Mix 1 minute on low, scrape bowl. Mix 2 minutes on medium. 7. Pour 1.5 oz (42.5 g) of the batter over the fruit in each small foil container. 8. Bake at 375°F for approx. 20 minutes. 9. Let cool. Cover, mark, and freeze.
Total	25.25	11,464	

NOTE:

APPLE COFFEE CAKE

Yield: 100 Portions

Each Portion: 1 Cake

Ingredients	Pounds	Grams	Procedure
Sweet Dough Mix Warm water (110°F) (43.3°C)	4.50	2,043 795	1. Add contents of yeast packet to the warm water. Allow the yeast to soak 4 min. then stir until dissolved. 2. Place sweet dough mix into mixing bowl. Add the rehydrated yeast suspension. Using a dough hook, mix on low speed until a dough is formed. Mix on medium speed to full development (approximately 10 minutes). 3. Remove the dough from the mixing bowl to a table dusted with general purpose flour. Wash and grease the mixing bowl. Round-up dough dusting with flour, if necessary. 6. Replace dough in the greased bowl, cover bowl with damp cloth or paper and allow to ferment at 80°F (26.7°C) for approximately 1½ hour or until double in bulk. 7. After fermentation, scale dough into 100 portions, each weighing 1 oz (28.4 g). 8. Roll each piece of dough to fit into the small greased foil containers.
Eggs, whole, beaten Milk, evaporated, undiluted	0.12 0.12	55 55	9. Combine egg and milk. Brush mixture over dough in each container. 10. Proof at 90° to 100°F (32.2° to 37.8°C) until double in bulk (approximately 1/2 hour.

APPLE COFFEE CAKE

Ingredients	Pounds	Grams	Procedure
Cinnamon, ground	0.01	5	11. Mix dry ingredients for
Mace, ground		2	topping.
Milk, nonfat, dry	0.01	7	
Sugar, granulated	3.00	1,362	
Starch, freeze-thaw stable	0.28	128	
Apples, canned, sliced	6.00	2,724	12. Add butter and apples to ingredients from step 11
Butter, melted	0•25	114	and mix well. 13. Place 1.5 oz (42.5 g) mixture over dough in each container. 14. Bake approximately 15 minutes at 375°F (190.6°C). 15. Cool, cover, mark and freeze.
Total	16.04	7,290	

NOTE:

FRENCH QUICK COFFEE CAKE

Yields 100 Portions

Each Portion: 1 Cake

Ingredients	Pounds	Grams	Procedure
Raisins	2.00	908	1. Soak raisins in hot water
Water, hot	Enough to		for 10 minutes. Drain and
<u> </u>	raisins		cool. Set aside for step 5.
Cake Mix, yellow	10.00	4,540	2. Place contents of 2 No. 10
Nutmeg, ground	0.03	14	cans of cake mix, including
Water	4.75	2,157	soda from packets and nutmeg,
			into a mixing bowl. Mix for
			1 minute on low speed.
			3. Add 1/2 amount of water.
			Mix 1 minute on low speed,
			scrape bowl. Mix 2 minutes on
			medium.
			4. Add remaining water. Mix
			1 minute on low speed, scrape
			bowl. Mix 2 minutes on medium.
Nuts, chopped	1.50	681	5. Add nuts and drained,
nuts, chopped	1.50	001	cooled raisins from step 1 to
			cake batter. Mix 30 seconds
			on low speed.
			6. Scale 2.5 oz (70.9 g)
			batter into each small foil
			container. Set aside for use
			in step 8.
Flour, general purpose	1.50	681	7. Combine ingredients; mix
Cinnamon, ground	0.02	9	to a coarse crumb.
Salt	0.01	5	8. Sprinkle approximately
Sugar, brown	0.75	341	0.5 oz $(14.2 g)$ mixture over
Butter or margarine,	0.75	341	the batter in each container
melted			reserved from step 6.
			9. Bake at 365°F (180°C) for
			approximately 15 minutes.
Butter or margarine	0.13	59	10. Combine ingredients; mix
Sugar, powdered	2.00	908	until smooth.
Vanilla	0.01	5	11. Dribble approx. 1/3 oz
Water, boiling	0.37	168	(9.4 g) over cake in each pan
			while still hot. Do not
			attempt to spread the icing
			with a spatula for the cake
			will crumble.

FRENCH QUICK COFFEE CAKE

Ingredients	Pounds	Grams	Procedure
			12. Allow the cakes to cool at room temperature. 13. Cover, mark, and freeze.
Total	23.82	10,817	

NOTE:

CHOCOLATE CHIP COOKIES

Yield: 100 Portions

Each Portion: 2 Cookies

Ingredients	Pounds	Grams	Procedure
Flour, general purpose, sifted	3.25	1,476	1. Sift together flour and salt. Set aside for use in
Salt	0.06	27	step 5.
Butter or margarine	0.25	114	2. Using beater on medium
Shortening	1.75	795	speed, cream butter or
Vanilla	0.03	14	margarine, shortening and
Sugar, brown	3 1.5 0	681	vanilla, Gradually add
Sugar, granulated	2.00	90 0	sugars and mix 3 minutes or
			until light。 Scrape down
			bowl.
Eggs, whole	1.00	454	3. Add eggs gradually to
,			creamed mixture. Blend
			thoroughly.
Baking soda	0.04	18	له. Dissolve soda in water;
Water, warm	0.06	27	add gradually to creamed
			mixture. Blend thoroughly.
			5. Add flour; mix only until
8 9	8.81		ingredients are combined.
Chocolate, cooking	2.25	1,022	6. Add chocolate chips and
semisweet chips		15	mix until evenly distributed.
			7. Drop by tablespoons in
			rows, 4 by 6, on ungreased
			pans.
			8. Bake 12 to 15 minutes at
			375°F (190.6°C).
			9. Loosen cookies from pans
			while still warm.
1			10. When cool, place 2
1			cookies in each large foil
			container.
Total	12.19	5,536	

NOTE:

OATMEAL COOKIES

Yield: 100 Portions

Each Portion: 2 Cookies

Ingredients	Pounds	Grams	Procedure
Cookie Mix, oatmeal	10	4,540	1. Place contents of two No. 10 cans of mix in mixing bowl including soda from the packets. Mix in soda for 1 minute on low speed.
Water	1	454	2. Add water and mix 1 min. on low speed. 3. Divide dough into 10 pieces, each weighing about 1 lb (454 g). Form each piece into a roll and cut into 20 slices. 4. Place slices in row: 5x7 on greased sheet pans. Dake approximately 12 minutes at 375°F (190.6°C). Remove from pans while warm. 5. After cooling, place 2 cookies in each large foil container. 6. Cover, mark and freeze.
Total	11	4 , 994	

NOTE:

DANISH PASTRY, CHERRY

Yield: 100 Portions

Each Portion: 1 Piece

Ingredients	Pounds	Grams	Procedure
Cherries, canned, red,	6.44	2,924	1. Drain and mash cherries.
sour, pitted Sugar, granulated	3.00	1,362	2. Add sugar; bring to a boil; boil 10 min. Cool and set aside for use in step 17.
Sweet Dough Mix Warm water (110°F) (43.3°C)	18.00 7.00	8,172 3,178	3. Add contents of yeast packets to the warm water. Allow the yeast to soak 4 min. and then stir until dissolved. 4. Place sweet dough mix into mixing bowl. Add the rehydrated yeast suspension. Using a dough hook, mix on low speed until a dough is formed. Mix on medium speed to full development (approx. 10 minutes.). 5. Remove the dough from the mixing bowl to a table dusted with bread flour. Wash and grease the mixing bowl. Round up dough, dusting with flour, if necessary. 6. Replace dough in the greased bowl, cover bowl with damp cloth or paper, and allow to ferment at 80°F (26.7°7) for approximately 1½ hour or until double in bulk. 7. After fermentation, divide dough into 4 pieces, each weighing about 6½ pounds (2.83 Kg.).

DANISH PASTRY, CHERRY

Ingredients	Pounds	Grams	Procedure
Butter, melted	1.00	454	8. Roll each dough piece into a rectangle about 1/2 inch (1.3 cm) thick. Brush melted butter over 2/3 of the top of each piece. Fold the 1/3 without the butter over the center 1/3. Fold the remaining 1/3 over the other 2 layers. 9. Reroll dough into another rectangle and repeat step 8. Place folded dough on sheet pans, cover, and chill 1/2 hour. 10. Repeat steps 8 and 9 but do not chill again. Roll the dough into a rectangle 10 inch (25.4 cm) wide and 3/4 inch (1.9 cm) thick. Cut each dough piece into 24 strips. 11. Roll each strip into a long slender rope. Coil each rope onto a greased sheet pan in rows 4 x 6.
Eggs, whole, beaten	0.25	114	12. Combine eggs and milk. Brush over rolls prepared in
Milk, evaporated, undiluted	0•25	114	step 11. 13. Proof pastry at 90° to 100°F (32.2° to 37.8°C) uncome double in bulk (approximately 1/2 hour) 14. Bake at 400°F (204.5°C) approximately 15 minutes.
Corn syrup Water	0•37 0•25	170 114	15. Combine ingredients. Bring to a boil, stirring constantly. Boil 5 minutes. 16. Brush pastry while still hot with glaze prepared in step 15.

DANISH PASTRY, CHERRY

Ingredients	Pounds	Grams	Procedure
			17. Apply cherry filling prepared in step 2 with a pastry bag.
Cinnamon, ground	0.05	23	18. Mix dry ingredients.
Flour, general	1.00	454	Add butter or margarine and
purpose			blend to form coarse crumbs.
Salt	0.01	5	19. Sprinkle approximately
Sugar, brown	0.25	114	1 TB mixture over each
Sugar, granulated	0.75	341	pastry.
Butter or margarine	0.63	286	20. Allow pastry to cool,
			then place 1 in each large
			foil container.
			21. Cover, mark, and
			freeze.
Total	39.25	17,825	

NOTE:

CHERRY PIE

Yield: 100 Portions

Each Portion: 1 Pie

Ingredients	Pounds	Grams	Procedure
Flour, general	8,00	3,632	1. Sift flour into mixing
purpose	=		bowl.
Shortening	7.00	3,178	2. Add shortening. Mix on low speed about 1/2 minute.
Water, cold Salt	2.50 .07	1,135 32	3. Dissolve salt in water and add to flour mixture. Mix on low speed about 1 min. or just until dough is formed. 4. Chill dough 1 hour or longer for ease in handling. 5. For each pie, roll our 1.5 oz (42.5 g) dough and fit into each small foil container. Set aside for use in step 12.
Cherries, canned, red, sour, pitted	12.88	5,848	6. Thoroughly drain cherries set aside for use in step 10. Reserve juice for use in step 8.
Starch, freeze-thaw stable	0.50	227	7. Combine cornstarch and water. Stir until smooth.
Water, cold	0.75	341	
Juice, cherry	1.75	795	8. Bring juice to a boil. Add starch mixture gradually to boiling juice; cook until thick and clear, stirring constantly.
Sugar Salt	3.50 0.02	1,589 9	9. Combine sugar and salt. Stir gradually into thickened mixture, stirring constantly. Bring to a boil. Turn off heat.
Food coloring, red (optional)	0.01	5	10. Add red coloring to thickened mixture. Carefully fold cherries into thickened mixture. 11. Cool before using.

CHERRY PIE

Ingredients	Pounds	Grams	Procedure
			12. Fill each individual pie pan reserved from step 5 with 2.5 oz (70.9 g) cherry filling. 13. For the top crust, roll out 1 oz (28.4 g) dough for each pie. Fit into pie pan and crimp edges. 14. Bake at 425°F for 25 minutes. 15. Let cool, then cover, mark and freeze.
Total	36•98	16,791	

NOTE: To thaw, remove foil lid and bake 15 minutes at 350°F.

CINNAMON PECAN ROLLS

Yield: 200 Rolls

Each Portion: 2 Rolls

			processory of process and the processor of
Ingredients	Pounds	Grams	Procedure
Butter, softened Sugar, brown Pecans, shelled, chopped	1.00 2.00 1.50	454 908 681	1. Spread 4 sheet pans each with 1/2 cup (113.4 g) softened butter. 2. Sprinkle each pan with 1/2 lb (227 g) brown sugar and 6 oz (168 g) nuts. Set aside for step 12.
Sweet Dough Mix Warm water (110°F) (43.3°C)	13.50	6,129 2,384	3. Add contents of yeast packets to the warm water. Allow the yeast to soak 4 min. then stir until dissolved. 4. Place sweet dough mix into mixing bowl. Add the rehydrated yeast suspension. Using a dough hook, mix on low speed until a dough is formed. Mix on medium speed to full development (approx. 10 min.) 5. Remove the dough from the mixing bowl to a table dusted with bread flour. Wash and grease the mixing bowl. Round up dough, dusting with flour, if necessary. 6. Replace dough in the greased bowl, cover bowl with damp cloth or paper and allow to ferment at 80°F (26.7°C) for approx. 1½ hour or until double in bulk. 7. After fermentation, divide dough into 4 pieces, each weighing 4.75 lbs (1.93 Kg). Round up and let rest 15 minutes.

CINNAMON PECAN ROLLS

Ingredients	Pounds	Grams	Procedure
			8. Roll each piece of dough into a rectangle about 14 x 40 inches (35.6x101.6 cm).
Butter, melted	0•25	114	9. Brush each dough sheet with about 1/8 cup (28.3 g) melted butter.
Cinnamon, ground Sugar, brown	0.02 1.00	9 454	10. Combine cinnamon and sugar. Sprinkle 4 oz (113.5 g) mixture over each buttered dough sheet.
			11. Roll up each sheeted dough piece to make a long slender roll. Elongate to 40 inches (101.6 cm). Slice each roll into 54 pieces. 12. Place rolls on sheet pans prepared in step 2 in rows 6 x 9.
Eggs, whole, beaten Milk, evaporated, undiluted	0•25 0•25	114 114	13. Combine eggs and milk. Brush over rolls prepared in step 12. 14. Proof rolls at 90° to 100°F (32.2° to 37.8°C) until dcuble in bulk. 15. Bake at 400°F (204.5°C) approx. 15 min. 16. After baking, invert panned rolls so nuts will be on top of rolls. 17. Place 2 rolls into each large foil container. 18. Cover, mark and freeze.
Totals	25.02	11,361	

NOTE:

Name	Largest Quantity Lbs	Federal Stock Number	Specification Number
Bacon, Slab	70.0	8905-00-551-9908	FED-PP-B-0081 (Army - GL)
Beef, Boneless a) Diced	55•0	8905-00-151-6580	MIIL-B-0035079
b) Oven Roasts	55•0	8905-00-151-6577	(GL) MIL-B-0035079
c) Pot Roasts	55•0	8905-00-151-6585	(GL) MIL-B-0035079 (GL)
d) Swiss Steaks	55•0	8905-00-151-6578	MIL-B-0035079 (GL)
e) Grill Steak		8905-00-151-6576	MIL-B-0035079 (GL)
Beef, Boneless Ground, Bulk	50.0	8905-00-285-2075	MIL-B-003854 (GL)
Beef, Corned Canned Beef, Corned	6.0	8905-00-127-3148	FED-PP-B-201
Bulk, Frozen Beef Liver, Slices	60.0 12.0	8905-00-299-1316 8905-00-655-8410	FED-PP-B-196 MIL-B-35047
Chicken a) Cut-up	15.0	8905-00-965-2128	FED-PP-C-248
b) Whole Chicken Breasts	54.0 15.0	8905-00-126-3416 8905-00-582-1393	FED-PP-C-248 FED-PP-C-248
Frankfurters Lamb Roast	60•0 30•0	8905-00-616-0050 8905-00-926-1599	FED-PP-F-660 MIL-L-43510
Ham, Canned, Whole Pullman	80.0	8905-00-410-4670	FED-PP-H-61
Perch, Frozen, Fillets Pork, Boneless	50.0	8905-00-164-0485	FED-PP-F-381
a) Diced b) Loin	50.0 20.0	8905-00-753-6503 8905-00-935-0618	MIL-P-43148 FED-PP-00571 (Army - GL)
c) Slices Pork, Spareribs	50.0	8905-00-753-6569	MIL-P-35098
Country	12.0	8905-00-491-7209	FED-PP-P-00571 (Army - GL)
Pork, Sausage a) Frozen Links	60•0	8905-00-926-6767	FED-PP-P-00630 (Army - GL)
b) Frozen Bulk	12.0	8905-00-926-6485	FED-PP-P-00630 (Army - GL)

	Largest Quantity Lbs.	Federal Stock Number	Specification Number
Polish Sausage Salmon, Canned Scallops, Frozen Tuna, Canned	Special Order 1.0 50.0 4.0	8905-00-543-7941 8905-00-164-6847 8905-00-935-3161	FED-PP-S-31 MII-S-3642 FED-PP-T-771
Turkey a) Raw, Boneless, Frozer b) Roll, Cooked	60 .9	8905-00-262-7274 8905-00-582-4042	MIL_T_16660 MIL_T_16660
Veal, Boneless	50.0	8905-00-616-0031	MIL-V-43299

RAW MATERIAL SPECIFICATIONS

DAIRY, EGG AND CONDIMENTS

Name	Largest Quantity	Federal Stock Number	Specification Number
Baking Powder Bread	1.0	8950-00-125-6333	FED-EE-B-25
a) Crumbs	50.0	8920-00-141-0136	
b) Dry		Special Order	
Butter	1.0	8910-00-616-0038	FED-C-B-00801 (Army - GL)
Catsup, Tomato Cheese	#10 Can	8950-00-127-9789	FED_JJJ_C_91
a) Cheddar, Natural	70.0	8910-00-125-8440	FED-C-C-271
b) Cottage	18.0	8910-00-126-3406	FED-C-C-281
c) Mozzarella	40.0	8910-00-782-2837	MII-C-35088
d) Parmesan, grated	1.0	8910-00-782-3765	FED-C-C-285
Corn Starch	1.0	8910-00-160-6165	FED-N-C-541
Cookies, Ginger Snap	12.0	8920-00-223-5413	FED-EE-C-651
Col-Flo 67		Special Order	122-22-0-0/1
Eggs, Whole, Frozen	30.0	8910-00-127-8252	MIL-E-1037
Eggs, Whole, Fresh	30.0	8910-00-222-0539	FED-C-E-271
Flour, Wheat, Hard	100.0	8920-00-125-9423	FED-N-F-481
Food Coloring, Caramel	16.02.	8950-00-782-2181	MIL-F-35093
Hot Sauce	6 02.	8950-00-926-9939	MIL-H-35021
Margarine	#10 Can	8945-00-222-0567	MII_M-10958
Macaroni, Dry	9.0	8920-00-125-9440	FED-N-M-0051
	,,,,	0,20 00 225 ,440	(Army - GL)
Milk, Nonfat, Dry	4.0	8910-2500-151-6465	MII_M_0035052 (GL)
Molasses	#21 Can	8925-00-125-9454	FED-JJJ-M-576
Mustard, Prepared	1 Gal.	8950-00-127-8024	FED-EE-M-821
Neodles, Dry	5. 0	8920-00-126-3388	FED-N-N-591
a) Lasagna	1.0	8920-00-782-2129	FED-N-M-0051 (Army - GL)
Salad Oil, Vegetable	1 Gal.	8945-00-616-0081	FED-JJJ-S-0030 (Army - GL)
Shortening	50.0	8945-00-616-0091	FED-EE-S-0033 (Army - GL)
Soy Sauce Soup and Gravy Base	16 oz.	8950-00-935-3254	FED-RE-S-610
a) Beef	8 oz.	8935-00-753-6423	MII_S_43690
b) Chicken	8 oz.	8935-00-753-6424	MII-S-43690
Spaghetti, Dry	10.0	8920-00-125-9441	FED-N-M-0051
		Charles of many latter	(Army - GL)

RAW MATERIAL SPECIFICATIONS

DAIRY, EGG AND CONDIMENTS, (CONT)

Name .	Largest Quantity	Federal Stock Number	Specification Number
Sugar, Brown	2.5	8925-00-566-7506	FED-JJJ-S-00791 (Army - GL)
Sugar, Granulated	100.0	8925-00-127-3074	FED-JJJ-S-00791 (Army - GL)
Spices, Ground and Whole a) Allspice, Ground b) Basil, Sweet c) Bay Leaves d) Celery, Salt e) Chili Powder f) Cumin, Ground g) Ginger, Ground h) MSG i) Mustard, Dry j) Nutmeg k) Oregano l) Paprika m) Pepper, Black	1 to 2 oz. 1 to 2 oz. 1 to 2 oz. 3 to 4 oz. 3 to 4 oz. 3 to 4 oz. 3 to 4 oz. 4 oz. 1 to 2 oz.	8950-00-170-9562 8950-00-404-6066 8950-00-127-8044 8950-00-127-8044 8950-00-119-4356 8950-00-616-5484 8950-00-263-2786 8950-00-127-8047 8950-00-127-8047 8950-00-127-8067	FED-EF-S-631 FED-EE-S-631 MII-C-10023 MII-C-3394 FED-EE-S-631 FED-EE-M-591 FED-EE-M-591 FED-EE-S-631 FED-EE-S-631 FED-EE-S-631 FED-EE-S-631 FED-EE-S-631 FED-EE-S-631
n) Pepper, Cayenne o) Poultry Seasoning p) Salt, Table q) Thyme	1 to 2 oz. 3 to 4 oz. 5.0 1 to 2 oz.	8950-00-170-9565 8950-00-170-9558 8950-00-262-8886	FED-EE-S-631 FED-EE-P-600 FED-SS-S-31
q) Thyme Vinegar a) Cider b) Wine, Red or White Worcestershire Sauce	32 oz. 32 oz. 6 oz.	8950-00-616-5483 8950-00-221-0297 8950-00-616-0213 8950-00-082-6177	FED-EF-S-631 FED-Z-V-401 FED-EE-W-00600 (Army - GL)

RAW MATERIAL SPECIFICATIONS - VEGETABLES

	Largest	Federal	Consol Olio alli au
<u>Name</u>	Quantity	Stock Number	Specification Number
	quariozo,	Number	Mamper
Beans, Red Kidney	#10 Can	8915-00-926-6793	FED-JJJ-B-00101 (Army - GL)
Bean Sprouts, Canned	#10 Can	8915-00-085-1642	MII_B_35012
Cabbage, Fresh		400 7 40 404 500	
Domestic	45.0	8915-00-616-0194	FED-HHH-C-26
Carrots, Fresh	48.0	8915-00-127-8019	FED-HHH-C-81
Celery, Fresh	55.0	8915-00-252-3783	FED-HHH-C-00191
Egg Plant, Fresh	30•0	8915-00-127-7983	FED-HHH-E-236
Garlic, Dehydrated	2 oz.	8915-00-616-5465	MIL-G-35008
Juice, Lemon, Instant	21 Qt.	8915-00-124-1950	MIL-J-43430
Juice, Pineapple, Canned	#3 Cyl.	8915-00-634-2439	FED-2-P-356
Juice, Tomato, Canned	#3 Cyl.	8915-00-255-0523	FED-JJJ-J-798
Mushrooms, Canned Dry Wt	• 39•0	8915-00-935-6629	FED-JJJ-M-851
Onions, Dehydrated			
a) Chopped	#10 Can	8915-00-128-1179	FED-JJJ-0-533
b) Powder	2.5 Gms	8915-00-132-6347	FED-JJJ O -533
c) Sliced	#10 Can	8915-00-128-1171	FED-JJJ-0-533
Parsley			
Dehydrated Flakes	2.0	8915-00-975-0530	MIL-P-35090
Peas			
Frozen	2 to 5.0	8915-00-127-8021	FED-HHH-P-160
Peppers, Sweet	•		
a) Fresh	30.0	8915-00-127-8006	FED-HHH-P-246
b) Green, sliced, frozen	2 to 5.0	8915-00-582-4073	FED-HHH-P-250
Pimentos, Canned	#22 Can	8915-00-935-6371	FED-JJJ-P-400
Pineapple, Canned, Chunks		8915-00-170-5127	FED-Z-P-351
Potatoes, White		3, 2 , 33 2 , 3 3	
a) Fresh	100.0	8915-00-616-0220	FED-HHH-P-622
b) Instant	#10 Can	8915-00-164-6876	FED-JJJ-P-630
Rice, Parboiled	50.0	8920-00-263-6425	FED-N-R-351
Sauerkraut, Canned	#10 Can	8915-00-957-9558	FED-JJJ-S-71
Tomatoes, Canned	,,	0,2,00 ,,, ,,,,	1.000-0-12
a) Whole	#10 Can	8915-00-582-4060	FED-JJJ-T-571
Tomato Paste	#21 Can	8915-00-127-9303	FED-JJJ-T-00579
Potatoes, French Fried,	5 lb. Box	8915-00-782-3508	FED-J-J-J-P-1429
Frozen	/ 200 000	0/1/-00-jub-j/00	* ************************************
Potatoes, Sweet, Canned	#22 Can	8915-00-127-8892	FED-JJJ-P-111
Vegetables, Mixed,	5 lb Pkg.	8915-00-935-6620	FED-HHH-V-200
Frozen		-,, ,,,	
Peas and Carrots	5 lb. Pkg.	8915-00-143-0997	FED-HHH-P-166
Green Beans, Frozen	5 lb. Pkg.	8915-00-128-1176	FED-HHH-B-136

RAW MATERIAL SPECIFICATION - VEGETABLES (cont'd)

NAME	LARGEST QUANTITY	FEDERAL STOCK <u>NUMBER</u>	SPECIFICATION NUMBER
Corn, Whole Grain, Frozen	5 lb. Pkg.	8915-00-127-8018	FED-HHH-C-586
Beans, Lima, Frozen Succotash, Frozen Black-eyed Peas	5 1b. Pkg.5 1b. Pkg.No. 300 Can	8915-00-127-7984 8915-00-143-0983 8915-00-616-0214	FED-HHH-B-145 FED-HHH-S-782 FED-JJJ-P-160

PRODUCTION GUIDE INDEX

MEAT ENTREES

Entree	Recipe No.	Page
Beef Boneless Diced		
Baked Beef and Noodles Barbecued Beef Cubes Beef Pot Pie Beef Stew	I-17 I-18 I-21 I-22	3 4 5 7
Beef Boneless Ground		
Baked Lasagna Barbecued Beef Patties Chili Con Carne with Beans Chili Con Carne without Beans Chili Macaroni Egg Plant Parmesan Meat Loaf and Brown Gravy Salisbury Steak with Brown Gravy Salisbury Steak with Tomato Gravy Spaghetti with Meat Balls Spaghetti with Meat Sauce Swedish Meat Balls	L-25 L-31 L-28 L-28 L-28-1 35 L-37 L-37 L-39 L-38 L-41	8 11 12 13 14 15 17 19 20 21 23 24
Beef Boneless Roasts		
Hot Roast Beef with Gravy	L - 9	25
Misc. Beef Items		
Chicken Fried Steaks Corned Beef Hash Swiss Steak with Brown Gravy Swiss Steak with Tomato Sauce	L-12 L-42 L-16 L-16	26 27 28 30
Frankfurters		
Baked Frankfurters with Sauerkraut Barbecued Frankfurters	1-60 1-61	32 33
Fish Baked Fish with Cheese Sauce Baked Tuna and Noodles Salmon Cakes	1-106 1-124 1-114	34 36 38

MEAT ENTREES (cont'd)

Entree	Recipe No.	Page
Pork, Dived, Boneless		
Pork Chop Suey Sweet and Sour Pork	I-80 I-82	39 40
Pork Loin, Boneless		
Barbecued Pork Loin Sliced Pork with Gravy	I-79 I-81-1	41 42
Pork Slices		
Baked Pork Slices with Gravy Breaded Pork Slices	I-83 I-86	43 44
Pork Cured		
Baked Ham with Cherry Sauce Grilled Ham with Pineapple Sauce	I652 I652	45 46
Pork Ribs		
Barbequed Pork Spareribs Braised Spareribs with Sauerkraut	L-92 L-93	47 48
Poultry, Chicken		
Barbecued Chicken Chicken Pot Pie Chicken Cacciatore Country Style Chicken Oven Fried Chicken	L-128 L-132 L-130 L-135 L-138	49 50 52 53 55
Poultry, Turkey		
Hct Turkey Sandwich	L-143-3	56
<u>Veail</u>		
Veal Loaf with Brown Gravy	L-35	57

PRODUCTION GUIDE INDEX

VEGETABLE ENTREES

Entree	Recipe No.	Page
Mashed Potatoes O'Brien Potatoes Glazed Sweet Potatoes Potatoes Au Gratin French Fried Potatoes	Q-57 Q-49 Q-67-(2) Q-51 Q-45	59 60 61 62 64
Mashed Sweet Potatoes	Q-69	65
Buttered Mixed Vegetables Buttered Peas Buttered Peas & Carrots Buttered Green Beans Buttered White Grain Corn Buttered Lima Beans Buttered Succotash	Q-G-3 Q-G-3 Q-G-3 Q-G-3 Q-G-3 Q-G-3	66 67 68 69 70 71 72
Baked Macaroni & Cheese Boston Baked Beans Steamed Rice Simmered Dry Beans	F-1 (2) Q-3 E-5 Q-5	73 74 75 76

PRODUCTION GUIDE INDEX DESSERTS

DESSERT	PAGE
Brownies	
Brownies, Chocolate	77
Cake	
Devil's Food with Butter Cream Frosting Pineapple Upside Down Cake	78 79
Coffee Cake	
Apple Coffee Cake French Quick Coffee Cake	80 82
Cookies	
Chocolate Chip Cookies Oatmeal Cookies	84 85
Danish Pastry	
Cherry	86
<u>Pie</u>	
Cherry	89
Rolls	
Cinnemon Pecan	Q 1

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PRODUCTION FROZEN FOODS	FOILS (MATERIALS)			
FEEDING MEAT	PACKAGING			
FEEDING SYSTEM VEGETABLES	PREPARATION			
Production guides are given for meat and vegetable entrees, as well as desserts. The guides are designed for use in the Frozen Foil Pack Meal Feeding System at F.E. Warren Air Force Base. Procedures are described for the preparation of 100 portions of each of the designated items. Changes in formulation and evaluation of finished products are the result of extensive work at NRDC. The objective was to make it possible to use institutional type facilities. It is recommended that production procedures, especially critical control points as well as reheating procedures, be followed closely in order to obtain a safe (over				

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